AL. 2. 1986-399 c.2

COAL TECHNOLOGY INFORMATION CENTRE AUTHOR INDEX VOL. II

Alberta RESEARCH COUNCIL

4583660

AL. 2, 1986-399

CANADIANA
C2
MAR 1 5 1983

COAL-ABSTRACTS INDEX

4TH EDITION

ARC INFORMATION SERIES No. 100

1983

INTRODUCTION

The Coal Technology Information Centre was established in April, 1978, as part of the Alberta Research Council. The Centre, which is funded by the Alberta Department of Energy and Natural Resources, (Energy Resources Research Fund) acts as an agency through which information can be furnished to Government Departments, Industry and Universities.

The objective of the Coal Technology Information Centre is to identify, collect, index, store, retrieve and disseminate information related to the winning and subsequent processing of coal. As well, as maintaining and updating a computerized searchable data bank, the Centre provides a published cumulative edition and a semi-annual update of the Coal-Abs Index.

The published Index consists of: a List of Holdings, Keyword Index, Author Index and Corporate Author Index.

LIST OF HOLDINGS - consists of identifier, title, author, source and other revelant information related to each document in the data bank.

example:

0178 84 (*) Article, Gasification

Design considerations for an in-situ gasification test of Eastern bituminous coals
By Strickland, L.D. / Martin, J.W. / Liberatore, A.J.
Morgantown Energy Research Centre, Morgantown, West Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San Diego, California, p. 355-365 Aug. 1978

(*) means a table of contents for this document is available on-line

(a) Identifier:

List of Holdings is arranged in separate subject categories. The first two numbers of the identifier are a number code indicating one of the eleven different subject classifications.

01 GASIFICATION
02 LIQUEFACTION
03 BENEFICIATION
04 MINING
05 ENVIRONMENT
06 COMBUSTION
07 GEOLOGY
08 TRANSPORTATION
09 EXPLORATION
10 PROPERTIES
11 ENERGY POLICY

The second set of two numbers indicate the year the document was published. Citations are listed under each subject category in descending chronological order.

(b) Abstracts:

Abstracts of all documents in the Index are available in a printed or on-line format, at the Coal Technology Information Centre.

(c) Keywords:

Specific keywords have been assigned to some of the documents in the data bank and they are also available on-line.

Digitized by the Internet Archive
in 2017 with funding from
University of Alberta Libraries

https://archive.org/details/coalabstractscoa02coal_1

KEYWORD INDEX - consists of an alphabetical listing of keywords followed by the identifier, title and report number of the document in which they appear. These citations are also listed in descending chronological order.

AUTHOR INDEX - consists of an alphabetical listing by author surname.

CORPORATE AUTHOR INDEX - consists of an alphabetical listing by corporate author phrase. Citations are listed in descending order.

The Centre maintains a full copy of the original article for reference purposes. All material in the data bank can be photocopied for a small service charge.

Any on-line search requests can be conducted through the Coal Technology Information Centre.

For further information contact:

Jane Ballash or Leslie Black

COAL TECHNOLOGY INFORMATION CENTRE
11315 - 87 Avenue
Edmonton, Alberta
T6G 2C2

Telephone: - (403) 439-5916
ext. 235

LEUNG, J
0181 227 A comparison of coal and gas as feedstocks for ammonia and methanol production in Alberta

LEUNG, LS
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 31 Fluidization technology, volume 1
0676 32 Fluidization technology, volume 2
0679 60 Role of fuel reactivity in fluidized-bed combustion

LEUTHART, C
0474 3 Fifth Symposium on Coal Mine Drainage Research

LEVA, D
0181 223 Technology and use of lignite, Vol. 1 and 2

LEVA, DW
0477 95 Third Symposium on Underground Mining

LEVANEVSKII, VS
0163 1 Underground processing of fuels

LEVCHENKO, II
0379 67 Automatic system for stabilizing reagent delivery rates in coal flotation
0379 68 A controllable electric drive, incorporating protection against explosion, for automatic belt-feed batchers

LEVELTON, BH
0679 201 Study of corrosion and erosion of fluid bed coal combustor boiler tubes - report on Phase I
1076 26 Coating coal with wetting agent followed by treatment with coal for emulsion

LEVENSPIEL, O
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0677 204 Oregon State University fluidized-bed research
0680 26 A comparison of the Plume model with currently used models for atmospheric fluidized bed combustion
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 6 Plume model for large particle fluidized-bed combustors
0681 149 A model for large scale atmospheric fluidized bed combustors
0682 41 Plume model for sulphur capture in large-scale, atmospheric fluidized-bed combustors

LEVERGOOD, JV
0881 47 Coal Technology '81, Vol. 1

LEVEY, RA
0480 113 The effects of a rider coal and splay deposits on roof conditions in the Stansbury Mine
0780 17 Wave-dominated deltas: an important economic depositional model for upper cretaceous of southwestern Wyoming

LEVIE, BE
0182 90 A model for roof spalling and its application to predicting cavity shape for the Hanna III UCG field test

LEVIN, JE
0578 86 New environmental laws may complicate conversion to coal at many plants

LEVIN, JS
0181 249 Start-up, operation and shutdown of a Wellman-Galusha gasifier

LEVINE, S
0181 92 Disposal of coal gasification wastestreams by evaporation

0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

LEVINE, CJ
0479 76 Overburden inhibitory zone dilution during dragline spoiling

LEVINE, DG
0177 15 Coal conversion technology

LEVINE, EP
0579 78 An assessement of the local air quality impacts of increased coal use resulting from implementation of the National Energy Plan

LEVINE, JR
0175 55 Measuring the methane content of bituminous coalbeds
0279 169 Selective bond cleavage of coal by controlled low-temperature air oxidation
0280 62 Coal liquefaction: 2. Controlled oxidations and thermolysis of coal in pyridine
0481 32 Direct method determination of the gas content of coal: Procedures and results

LEVINE, MD
0576 16 The need for coal cleaning

LEVINE, SR
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

LEVINSON, LM
0278 96 Magnetic and Moessbauer spectroscopic characterization of coal
0279 102 Enhancement of magnetic separability in coal liquefaction residual solids
0282 39 Magnetic separation and thermo-magneto-chemical properties of coal liquefaction mineral particulates
1079 254 Moessbauer effect spectroscopic study of pyritic sulfur in coal
1081 214 Moessbauer spectroscopy for pyrite analysis in coal

LEVY, A
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0180 273 Use of low-and medium-energy gas from coal in ceramic processes
0278 54 Coal liquefaction alloy test program, Annual Report FY 1978
0576 24 Hydrothermal coal desulfurization with combustion results
0577 65 Emissions from the combustion of hydrothermally treated (clean) coal
0681 134 Erosion mechanism in ductile metals

LEVY, D
0276 98 Coal liquefaction design practices manual

LEVY, AV
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

LEVY, EK
0277 25 Chemical characterization, handling, and refining of SRC to liquid-fuels, Final Report on Task 3: Handling characteristics of SRC
0677 29 Centrifugal Fluidization: A Review
0677 42 Analysis of power cycles with centrifugal fluidized-bed coal combustion
0677 200 Centrifugal fluidized combustion of coal

0678 90 Centrifugal fluidized combustion of coal, Annual report for period ending Sept. 1977
0679 50 Centrifugal fluidized combustion of coal
1077 92 Chemical characterization, handling and refining of solvent-refined-coal to liquid fuels, Final Report

LEVY, JM
0681 28 NO/char reactions at pulverized coal flame conditions

LEVY, RB
0176 10 Scientific resources relevant to the catalytic problems in the conversion of coal
0276 39 New materials for coal liquefaction
0278 49 Catalysis in coal conversion

LEWANDOWSKI, GA
0181 146 A safety analysis - low Btu coal gasification facilities

LEWELLEN, WS
0677 142 Modeling two-phase flow in a swirl combustor. Final Report. ARAP Report No. 310

LEWELLYN, ME
0380 70 Process for dewatering mineral and coal concentrates
0380 71 Dewatering aid for processing mineral concentrates
0380 151 Process for dewatering mineral concentrates
0380 155 Process for dewatering mineral concentrates

LEWELLYN, MM
1079 256 A characterization of the rheological properties of coal-fuel oil slurries

LEWIS, G
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

LEWIS, M
0980 0 Tridem airborne conductivity mapping as a lignite exploration method

LEWIS, R
0177 56 Synthane gasification proves responsive
0177 113 Coal pressurization and feeding - Use of a lock hopper system

LEWIS, S
0478 32 Investigation into substitutes for chock-support timber
0481 119 A rationale of roadside packing

LEWIS, BG
0578 113 A biologist's manual for the evaluation of impacts of coal fired power plants on fish, wildlife, and their habitats

LEWIS, DW
0477 185 Stabilization of essential rotating machinery for the fossil-fuel industry
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

LEWIS, EC
0177 101 Study of plant metallurgical requirements for low-Btu gasification of coal for electric-power generation

LEWIS, GL
0180 223 Chemical and physical stability of refractories for use in coal gasification, final report, May 1, 1976 - July

LEWIS, HE
0277 42 Solvent-Refined-Coal (SRC) process operation of Solvent Refined Coal Pilot Plant at Wilsonville, Alabama, Annual report, January - December 1976
0278 119 Solvent-refined-coal (SRC) process: Operation of solvent-refined-coal pilot-plant at Wilsonville, Alabama, Annual report, January - December 1977

LEWIS, IC
1079 115 Pyrolysis studies on model aromatic sulfur compounds
1082 78 Characterization of pitches by differential scanning calorimetry and thermomechanical analysis

LEWIS, JA
0380 124 Simultaneous effects of oxygen and ferric iron on pyrite oxidation in an aqueous slurry
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 97 Test results of the EPRI/B&W 6'x 6' fluidized bed combustor

LEWIS, JJ
0478 217 Progress in the development of the North-east Leicestershire coalfield

LEWIS, MF
0181 223 Technology and use of lignite, Vol. 1 and 2

LEWIS, PF
0178 266 Modeling of coal gasification for fuel-cell utilization. Final report, May 1976 - June 1978
0179 9 The chemistry of potassium and sulfur in entrained-flow gasifiers
0179 157 Char gasification -- 2. Oxidation results

LEWIS, PS
0168 0 Reaction of Coal with Steam at high pressures
0175 25 Bituminous coal gasified in a stirred-bed producer
0576 14 A study of stirred, fixed-bed gas producer behavior with caking coals
0673 13 Hot sulfur removal from producer-gas

LEWIS, RA
0578 25 The bioenvironmental impact of a coal-fired power plant, third interim report

LEWKOWICZ, L
0282 175 Liquefaction characteristics of Alberta subbituminous coals

LEWY, PM
0479 151 Colliery model --a computer aid to planning at a colliery

LEYENDECKER, RR
0480 53 Heat rate improvements in pulverized coal power plants

LEYTAEUSER, D
0780 13 Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence

LI, A
0281 195 Scaleup performance and thermal stability analysis of H-oil and H-coal ebullated-bed reactors

LI, K
0181 172 A structure-based kinetic model for carbonation of sulfided dolomite at elevated temperatures
0581 20 Reaction mechanism of half-calcined dolomite during sulfidation
0678 190 Study of the Mechanism of the Hydrogen sulfide/dolomite reaction, Annual report, July 1977 - June 1978

LI, R
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III

LI, CT
0173 7 Comparison of alternate coal gasification processes for pipeline-gas production

LI, CY
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

LI, NC
0278 4 Nature of hydrogen bonding in coal-derived asphaltenes
0278 53 Characterization of coal-liquid fractions. Molar enthalpies of quinoline interaction with coal-derived asphaltenes and heavy oils
0278 208 Hydrogen bonding in asphaltenes and coal, Quarterly report, July 1 - September 30, 1978
0279 99 Viscosity, calorimetric, and proton-magnetic-resonance studies on coal liquid fractions in solution.
0279 198 Characterization of upgraded coal liquids
0281 112 Analysis of upgraded solvent-refined coal (SRC) liquid products
0281 113 Ageing of SRC liquids
0281 275 600-MHz proton magnetic resonance study of coal-derived liquids
1079 37 Molecular interaction of quinoline with coal-liquid fractions
1079 123 Influence of hydrogen bonding on the viscosity of coal liquids

LI, TC
0181 111 System and method for handling lock gas in a coal gasifier system

LIBERATORE, AJ
0174 35 Noncaking-coal gasified in a stirred-bed producer
0175 17 Behavior of caking coals in fixed-bed-gasifiers
0175 25 Bituminous coal gasified in a stirred-bed producer
0178 84 Design considerations for an in-situ gasification test of Eastern bituminous coals
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 85 Initial results from a linked-vertical-well field test in bituminous coal
0179 99 Pricetown-I - Instrumentation and preliminary data
0179 263 Pricetown I - in-situ coal conversion field test for bituminous coals
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

LIBICKI, J
0181 223 Technology and use of lignite, Vol. 1 and 2
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0477 94 Seventh Symposium on Coal Mine Drainage Research
0578 21 Effects of the disposal of coal waste and ashes in open-pits

LIBUTTI, BL
0678 260 Criteria for selection of coal additives

LICASTRO, PH
0475 9 First Symposium on Underground Mining, Volume I

LICCARDI, AL
0681 81 Coal technologies under development, applications and status of processes

LICHTENSTEIN, J
0679 84 Atmospheric corrosion protection for carbon-steel in coal and lignite-fired power-plants

LICHTMAN, D
0582 19 Studies of surface layers on single particles of in-stack coal fly ash

LIDDY, JC
0776 1 The Potential of Australian Brown Coals for Petroleum and Allied Products

LIEBENBERG, BJ
0273 1 The uncatalyzed hydrogenation of coal

LIEBERG, M
0681 50 Construction program for a large superconducting MHD magnet system at the coal-fired flow facility

LIEBERMAN, M
0178 292 Pre-methanation purification study: Removal of low concentration gaseous-sulfur compounds (catalyst poisons). Final report, July 1975 - July 1977

LIEBERMAN, NP
0280 64 Common crude unit problems, remedies

LIEBMAN, I
0475 9 First Symposium on Underground Mining, Volume I
0478 97 Coal-dust explosion barriers
0478 108 Extinguishing agents for mine face gas explosions
0481 97 Suppression of coal dust explosion by water barrier in a conveyor belt entry
0481 99 Three Bureau of Mines optical dust probes

LIEGEOIS, R
0480 31 The latest results of coal mining research in Belgium

LIEN, CL
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 38 The measurement of the flow properties of coals for in-situ gasification. Final report for December 1977 - November 1978

LIFSHITS, MM
1079 184 The determination of the degree of reduction of hard coals

LIFSHITZ, C
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

LIGHT, BA
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

LIGHT, DL
0578 23 Utilization of fly-ash and coal mine refuse as a road base material

LIGHTFOOT, EN
0681 119 Dispersion, mass transfer and chemical reaction in multiphase systems. 1. Theoretical developments

LIGHTNER, RG
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

LIGHTOWLER, J
0180 78 Coal Technology '80

LIGON, DR

0177 275 Coal conversion: Practical and legal implications

LIHACH, N
0379 30 From cleaning: More coal per ton
0681 120 New fuels for old

LIKALTER, AA
0677 149 Carbon-dioxide magnetohydrodynamic laser

LIKENS, GE
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

LIKHACHEVA, LA
0680 217 An investigation of the tendency to undergo spontaneous combustion of coals of new deposits of the Kuzbass

LIKHTENSHTEIN, VI
0779 25 Matir infrared spectra of coals of the rank series
1078 178 The change in the infrared spectrum when coal is heated in a tablet with potassium bromide
1080 179 IR spectroscopy of coal. Distortions of the spectra of coals in tablets with potassium bromide
1080 199 The IR spectroscopy of coals. Influence of fillers on the nature of the IR spectra
1080 215 Determination of hydroxyl groups in coals
1081 123 The IR spectroscopy of coals. Method of obtaining spectra in the region of hydroxyl absorption

LILIENTAL, Z
0281 295 CBED Identification of type 3C pyrrhotite in coal liquefaction product

LILJEDAHL, GN
0678 248 Study of electric plant applications for low-Btu gasification of coal for electric power generation. Final report, R and D, Task 11 (phase 1), July 1974 - August 1978

LILLEKER, WH
0379 37 Computer predictions of coal cleaning performance

LILLER, DI
0382 9 Four methods to raise plant output

LILLERUD, K
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

LIM, B
0280 359 Hydroliquefaction of Australian coals continuous reactor studies on a Victorian brown coal

LIM, BP
0280 297 Continuous hydroliquefaction tests of Australian brown coal

LIM, CJ
0180 16 Coal gasification in a spouted bed

LIM, KJ
0580 123 Process evaluation and environmental assessment of coal-fired utility boiler No//x control technologies
0580 145 Environmental assessment of utility boiler combustion modification NO//x coals: Volume 1. Technical Results
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

LIM, MY
0679 0 Trace-elements from coal combustion - atmospheric emissions

LIMONOVA, VY
1080 107 A study of some coals of the Pechora Basin with respect to the parameters of the draft petrological-geochemical classification
1080 168 Analysis of the structure of the charge of byproduct coke works according to the parameters of a petrological-geochemical classification of coals

LIN, D
0281 195 Scaleup performance and thermal stability analysis of H-oil and H-coal ebullated-bed reactors

LIN, L
0180 72 Elutriation and attrition of char from a large fluidized-bed

LIN, M
0178 132 Cobalt-based catalysts for the production of carbon/2 - carbon/4 hydrocarbons from syngas

LIN, CJ
0178 272 Coal processing technology, Volume IV
0180 302 Solids circulation around a jet in a fluidized bed gasifier Final technical report for period September 1, 1978 - September 30, 1980
0377 46 Desulfurization of coals by high-intensity high-gradient magnetic-separation: Conceptual process design and cost estimation
0680 60 Laboratory combustibility testing of solid fuel

LIN, CT
0280 230 Data bank for synthetic fuels

LIN, CY
0173 36 Production of low-Btu-gas involving coal pyrolysis and gasification

LIN, FN
0178 272 Coal processing technology, Volume IV

LIN, HM
0181 158 Vapor-liquid equilibrium in ternary mixtures of hydrogen + carbon dioxide + tetralin
0181 159 Vapor-liquid equilibrium of the hydrogen + carbon dioxide + quinoline system at elevated temperatures and pressures
0276 24 Phase equilibrium in coal liquefaction processes
0281 12 Solubilities of hydrogen and methane in coal liquids
0281 37 Correlation of solubility of hydrogen in hydrocarbon solvents

LIN, JD
0682 20 A comparative study of the structure of burning sprays of Number 2 and SRC-II fuel oils

LIN, SS
0176 111 Advanced coal gasification system for electric-power generation. Technical status report: Development of full-size gas turbine combustors using simulated low-Btu fuel gas at 350-degrees-F.

LIN, TY
0378 52 Removal of nitrogen and sulfur from coal-derived liquids
1079 101 Analysis of organic nitrogen compounds using paired ion chromatography. Applications to the analysis of coal-derived liquids

LIN, YT
0177 64 Thermal and structural response for underground coal gasification
0177 66 Fracture mechanics and stress analysis associated with underground coal gasification
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research

Center, Morgantown, West-Virginia, August 1976
0178 184 Improved methanation system for use in coal gasification, Final report
0178 243 Structural mechanics simulations associated with underground coal gasification
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

LIN'KOV, AM
0478 305 Determination of abutment pressure and assessment of stability of seam edges and pillars with postlimiting deformations

LINARES-SOLANO, A
0179 142 Reactivity of heat-treated coals in steam

LINCOLN, DR
0579 47 Cross-media environmental impacts of coal-fired power-plants: An approach using multi-attribute utility theory
0580 98 Air pollution emissions from increased industrial coal use in the northeastern United States

LINDAHL, DR
0278 152 Design and construction of the PDU for zinc-halide hydrocracking of coal. Final Report for Task 4 and 5

LINDAHL, PC
1082 60 Determination of trace elements in coal by an oxygen bomb combustion/atomic absorption spectrophotometric method

LINDBERG, SE
0580 0 Environmental and climatic impact of coal utilization

LINDBERGH, K
1180 10 Coal: a contemporary energy story

LINDEMAN, R
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

LINDEN, HR
0164 10 Conversion of solid fossil-fuels to high heating value pipeline-gas
0173 12 Symposium papers, Clean fuels from coal

LINDLEY, GF
0479 178 Opencast (strip) coal mining

LINDLY, EC
1179 57 Coal handling systems

LINDNER, E
0477 134 South Australian coals and their troublesome impurities

LINDSAY, R
0679 92 Direct-fired coal system solves pollution and fuel problems

LINDSAY, SF
0477 92 Fifth Symposium on Surface-mining and reclamation

LINDSTROM, L
0281 65 Liquefaction of Swedish peats

LINDSTROM, GD
0580 26 Further development of an advanced low-nitrogen-oxide (NO//x) combustion system and its potential application to coal-fired utility boilers

LINEBERGER, WC
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

LINEBERRY, JT
0679 33 Report on the MHD performance demonstration experiment for the period October 1977 to September 1978

LINEHAN, P
0482 12 Vibration and air blast noise from surface coal mine blasting

LINEHAN, PW
0477 50 Spectral analyses of air and ground vibrations from blasting in surface coal mines

LINGERG, SE
0680 3 Mercury partitioning in a power plant plume and its influence on atmospheric removal mechanisms

LINHARDT, HD
0178 304 Investigation of high velocity wedge separator for particle removal in coal gasification plants Phase 1 Report
0180 197 Investigation of high velocity separator for particle removal in coal gasification plants, phase II report

LINK, FW
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

LINK, HA
0180 173 Correlation of the high-temperature corrosion behavior of structural alloys in coal conversion environments with the components of the alloys and of the corrosive environments

LINK, JM
0881 32 Differential flow rheometer

LINN, JK
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

LINNIG, DA
0282 81 Coal to oil and gas Sasol one, two and three

LIOTTA, R
0179 141 Coal science: Basic research opportunities
0180 205 Formation of caking coals
0281 119 Treatment of heavy coal fractions
0281 167 Treatment of coal liquids
0281 169 Treatment of coal to increase yields and improve physical characertistics of coal liquefaction distillates and bottoms
0281 303 Oxygen-alkylation of carbonous material and products thereof
0381 55 Pretreatment of solid naturally-occuring carbonaceous matter
0381 88 Demineralization of coal
1079 39 Selective alkylation of acidic hydroxyl groups in coal
1081 7 Coal. Kinetics of O-Alkylation
1081 22 Effect of O-alkylation on the caking properties of coal
1081 114 Formation of caking coals
1081 155 O-Alkylation chemistry of coal and its implications for the chemical and physical structure of coal
1081 193 Method for producing coke

LIPARI, PF
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

LIPP, DC
0177 95 Investigation of converting the products of coal gasification to methane by the action of microorganisms, Phase I, Final report, Nov. 1975 - Dec. 1976, Dynatech Report No. 1567

LIPPERT, TE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

LIPPMANN, H
0479 163 Mechanics of drilling in brittle or granular materials, especially in coal seams
0481 67 Models of translatory rock bursting in coal

LIPSCOMB, WO
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

LIPTAK, BG
0180 34 Overview of coal conversion process instrumentation

LIRAG, RC
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

LISANKIE, JR
0678 72 Fluidized-bed combustion has HPI potential

LISAUSKAS, RA
0177 90 Coal processing technology, Volume 3
0181 250 Practical operating experience of a Riley gasifier

LISCINSKY, DS
1080 187 Evaluation of an automated reflectance microscope system for coal characterization

LISOWSKA, EK
0581 88 Method for treatment of industrial waste from high-temperature coal gasification

LISS, B
0181 115 Design of high-velocity fluid-beds for flash hydrogenation
0279 223 Fluid bed hydrogenation of agglomerating bituminous coals
0678 111 Flow regimes in vertical gas-solid contact systems
0680 110 Prevention of defluidization in the treatment of coking carbonaceous solids

LISTER, E
0680 1 Low NO//x heavy fuel combustor program

LISTREM, AI
0680 132 The comparative characterization of the organic substance of the combustible shale and brown coal of the Novodmitrovskoe deposit of the Ukrainian SSR
1079 236 The composition and properties of the kerogen of the Pripyat combustible shales of Belorussia from the results of thermal degradation

LITCHFIELD, JF
0178 379 Slurry injection nozzle for vertical lift dryer - final report

LITTLE, AD
0173 12 Symposium papers, Clean fuels from coal

LITTLE, JL

0677 209 Sulfur removal in fluidized-bed combustion

LITTLEFIELD, CC
0277 134 Exploratory studies of the application of gas-cooled reactors to coal conversion

LITTLEJOHN, GA
0479 135 Consolidation of old coal workings

LITTMAN, H
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 31 Fluidization technology, volume 1

LITTON, CD
0479 2 Fire detectors in underground mines
0481 96 Smoke characteristics of coal-lined tunnel fires

LITTON, GC
0475 9 First Symposium on Underground Mining, Volume I

LIU, T C
0281 136 Reaction model for the dissolution of large particles of Texas lignite

LIU, CY
0179 218 Underground gasification for unrecoverable East-Appalachian coals

LIU, HF
0877 7 Conserving energy and protection environment by using freight pipelines - A technology assessment
0879 34 Fuel economy of freight pipeline for transporting coal
1080 26 Study of the reaction of Maleic-anhydride with Illinois bituminous coal

LIU, JH
1078 0 Moessbauer-spectroscopic investigation of iron species in coal

LIU, JK
0882 48 Application and experience of hydroviscous drives in slurry pipeline pump service

LIU, KT
0676 32 Fluidization technology, volume 2
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi-solids fluidized-bed combustion process
0677 197 Battelle's multi-solid fluidized-bed combustion (MS-FBC) process
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

LIU, MK
0579 7 Study of long range air pollution problems related to coal development in the Northern-Great-Plains

LIU, RT
1079 84 Preferential adsorption of methane over hydrogen on certain coals

LIU, TC
0181 86 Modelling of a continous lignite extraction process
0280 189 Simulation of underground liquefaction of lignite - dissertation
0280 339 Liquefaction of lignite

LIU, YA
0178 272 Coal processing technology, Volume IV

0279 45 Studies in magnetochemical engineering. 1. A pilot-scale study of high-gradient magnetic desulfurization of solvent-refined-coal
0281 330 Separation of particles from coal derived liquids via surface charge properties
0377 46 Desulfurization of coals by high-intensity high-gradient magnetic-separation: Conceptual process design and cost estimation
0380 81 High gradient magnetic beneficiation of dry pulverized coal via upwardly directed recirculating fluidization

LIVEMORE, GS
0180 229 Improvement in or relating to gas producers - A

LIVENGOOD, CD
0578 19 Environmental control strategies for coal-fired power plants: A comparative evaluation

LIVESEY-GOLDBLATT, E
0380 96 Treating uraniferous coals

LIVINGSTON, AL
0780 23 Stratigraphy and coal resources of Dakota sandstone in Sage Plain, Southwest Colorado and Southeast Utah

LIVINGSTONE, GK
0479 171 Underground coal mining in the future
0480 17 Coal mining practices at Kaiser Resources Ltd.

LIVSHITS, BY
0379 70 Separation of coal with respect to ash content on screens

LIZUN, SA
0780 42 Thermostimulated electrical conductivity as a method of differentiating coals according to rank
1080 170 Photoelectric effect in coals

LLEWELLYN, RL
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky

LLOYD, R
0380 63 Coal de-ashing process

LLOYD, T
0480 112 Mine plan optimization through the use of geologic and fuel quality control programs

LLOYD, W
0580 49 Isothermal plastic behavior of bituminous coals
0680 80 Chlorine in Kentucky coal

LLOYD, DM
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 180 Materials problems in fluidized-bed combustion systems

LLOYD, EA
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

LLOYD, JL
0280 179 Pyrite-catalyzed hydrogenolysis of benzothiophene at coal liquefaction conditions

LLOYD, JM
0279 179 The selectivity of coal minerals and SRC residue ashes for hydrodesulfurization in the SRC process

LLOYD, WG
0279 139 Experimental laboratory measurements of thermophysical properties of selected coal types
0280 303 A model for the isothermal plastometric behavior of coals

LO, C
0181 162 Moessbauer and magnetic studies of bifunctional medium-pore zeolite-iron catalysts used in synthesis gas conversion

LO, R
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

LO, HB
1077 71 A new technique for measuring reflectance of vitrinite and dispersed vitrinite in sediments

LO, RN
0175 29 Coal technology semiannual report
0175 42 Chemical Engineering Division, Coal technology semiannual report, January - June 1975
0175 57 Gasification of chars produced under simulated in-situ processing conditions, Quarterly report for the period July - September 1975
0176 99 Gasification of chars produced under simulated in-situ processing conditions. Annual report for the period October 1975 - September 1976
0276 70 Coal liquefaction support studies. Annual report, October 1975 - September 1976
0279 29 Description, calibration, and preliminary testing of the coal liquefaction heat-transfer coefficient measurement test unit

LO, YL
0178 272 Coal processing technology, Volume IV

LOBANOV, AV
0379 82 Enhancing drying drum performance

LOCHMANN, WJ
0178 8 Materials problems in coal gasification and liquefaction
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0278 54 Coal liquefaction alloy test program, Annual Report FY 1978

LOCKE, HB
0673 29 Combustion of residual fuel-oils in fluidized-beds
0675 3 State-of-the-art of Fluidized combustion
0675 4 Fluidized combustion for Western-fuels

LOCKER, F
0580 58 Laboratory support

LOCKHART, NC
0280 58 Optical microscope observations of electrokinetic separation in solvent-refined coal
0280 166 Electrical properties and the surface characteristics of dispersions of colloidal particulates in coal-derived liquid
0281 1 Comments on cross-flow electrofilter for nonaqueous slurries
0381 21 Sedimentation of electro-osmotic dewatering of coal-washery slimes
0382 27 Electro-osmotic dewatering of coal froth flotation concentrates

LOCKLIN, DW
0674 4 Power Plant utilization of coal - A Battelle Energy Program Report
0680 114 Fireside additive trials in utility boilers - overview of an EPRI survey

LOCKWOOD, DL
1178 15 Supply demand forecast thru the year 2000

LOCKWOOD, FC
0680 216 A prediction method for coal-fired furnaces

LODGSON, W
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report

LOEDING, JW
0167 0 Coal pretreatment and gasification
0173 12 Symposium papers, Clean fuels from coal
0176 16 The IGT Low-Btu-gas process - Design and Economics
0180 108 Method for feeding caking coal particles to a gasifier

LOESTER, JK
0677 120 Coal slag effects in MHD generators

LOGAN, TJ
0577 45 Establishing soil loss and sediment yield limits for agricultural land

LOGGINS, TC
0580 66 Apparatus for removing particulates from the exhaust gases generated in drum mixers and aggregate dryers

LOGINOV, LF
1078 162 Potentiometric investigation of the redox properties of humic acids.

LOHMAN, GM
0478 282 Longwall/shortwall mine equipment availability and delay analysis, Final Technical Report

LOHMANN, C
0178 89 Symposium on Coal Refining, Proceedings

LOHN, PD
0775 3 Cutting experiments using a rotating water jet in a borehole

LOHRMANN, PC
0681 216 Performance of a bottom discharge blow vessel conveying pulverized fuel ash

LOJAS, J
0779 27 Longwall mining of coal seams in Poland

LOKSHIN, AG
1079 212 Influence of variations in the parameters of coal on the readings of ash-meters

LOMMERZHEIM, W
0177 44 Methanization of CO/H//2 mixtures in fluidized bed reactors

LOMPA-KRZYMIEN, L
0382 29 Complete removal of sulphur from coal using solutions containing cupric ions

LONG, G
0172 15 Why methanate SNG

LONG, R

1180 7 Inflation and the real cost of energy

LONG, DG
0779 8 The Tranquille beds of the Kamloops group: a tertiary (middle eocene) coal-bearing sequence in the vicinity of Kamloops Lake, British-Columbia
0780 1 Preliminary analysis of a gravity profile across the Bonnet Plume Basin, Yukon-Territory, Canada: an aid to coal-basin evaluation

LONG, JA
0380 130 The role of closo-nido tautomerism in rhodacarborane catalysis

LONG, RB
0179 141 Coal science: Basic research opportunities
0279 177 The concept of asphaltenes
0281 79 Coal liquefaction process
0281 155 Coal liquefaction process
0281 360 Coal liquefaction process
1079 220 Magnetic resonance studies of labeled guest molecules in coal

LONG, RH
0279 124 The C-E Lummus clean fuel from coal process
0279 226 Developmental research program for clean industrial and transportation fuels from coal - Milestone Report on Process Variable Studies, July 1978-February 1979
0280 319 Advanced coal liquefaction processes emphasize low hydrogen consumption
0879 3 Developmental research program for clean industrial and transportation fuels from coal, milestone report on solvent self sufficiency with equilibrium solvent and catalyst life testing period August 1977 - July 1978

LONGANBACH, JR
0174 12 Coal processing technology
0177 218 Gasification of dilute-phase hydrogasification char, Final Report
0177 280 A novel approach to coal gasification using chemically incorporated CaO (phase-II). Summary report, April 1976 - May 1977
0178 109 Determination of the kinetics of hydrogasification of char using a thermobalance
0280 237 Short residence time coal liquefaction
0281 268 Short-contact-time coal liquefaction: effect of coal rank and solvent source on conversions and heptane-insoluble product compositions

LONGFELLOW, RL
0578 0 Chemical Stabilization ends fine coal refuse problems

LONGMATE, CD
0480 111 Experiences of a manufacturer of pneumatic equipment

LONGO, TF
0278 127 Gas-chromatography - mass-spectrometry analyses: Nitrogen heterocycles in coal liquids

LONGRIGG, P
0681 78 Use crosscorrelation for reliable detection of pulverized coal combustion
0681 117 Pulverized coal combustion detection using crosscorrelation techniques

LONGWELL, JP
0180 113 Effect of calcined dolomite on the fluidized bed pyrolysis of coal
0282 93 Coal pyrolysis by hot dolomitic solids from a fluidized bed combustor
0282 131 Product distribution from iron catalysts in Fischer-Tropsch slurry reactors

LOODBERG, JA
0680 97 Composition comprising a pulverized purified substance, water and a dispersing agent, and a method for

preparing the composition

LOOP, RB
0181 208 Materials testing at the Hanna-IV and Hoe Creek-III in situ coal-gasification sites

LOPACHONOK, LV
0379 99 The main laws of the distribution of shale grains in a hydrocyclone

LOPAEVA, NP
0680 217 An investigation of the tendency to undergo spontaneous combustion of coals of new deposits of the Kuzbass

LOPANOV, AN
1080 191 Correlation between electrode potentials and floatabilities of Donbas coals

LOPEZ, J
0177 245 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual Report, June 1976 - May 1977
0178 177 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual report, June 1977 - May 1978
0381 56 Coke from coal and petroleum

LORAN, BI
0178 272 Coal processing technology, Volume IV
0574 19 Environmental factors in coal liquefaction plant design
0577 13 Environmental factors for Fischer-Tropsch coal conversion technology
0578 50 A clean coal conversion technology

LORD, W
0681 151 A model of the fluid mechanics in fluidized bed combustors

LORD, SB
0678 160 A review of spontaneous combustion problems and controls with application to U.S. coal mines. Final technical report. Contractor - PD - NCB Consultants Limited. Dames & Moore

LORENTZSEN, NM
0881 10 Transportation of western coal

LORENZ, RJ
0477 92 Fifth Symposium on Surface-mining and reclamation

LORSONG, JA
0779 49 Lithofacies of the lower cretaceous Mannville group, west-central Saskatchewan

LOSEV, BI
0163 1 Underground processing of fuels

LOSIN, ET
0677 18 A study of coal firing in the grate-kiln system

LOTH, RA
0380 13 EPRI research and development of coal-based power generation
0677 252 Coal-fired power plant capital cost estimates

LOTHROP, JW
0678 234 Coal combustor technology development

LOTZ, A

0379 121 Process for dressing coal or similar minerals

LOUBSKY, WJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

LOUGHEED, DD
1177 29 The 29th Canadian conference on coal

LOUGHNAME, MD
0679 151 Hot corrosion/erosion testing of materials for application to advanced power conversion systems using coal-derived fuels - Task II - Fluidized-bed combustion

LOUGHNANE, MD
0677 166 A program for hot corrosion/erosion materials testing for application to fluidized-bed coal combustion

LOUH, CJ
0281 252 A mathematical model for coal liquefaction in the solvent refined coal process

LOUIS, JF
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0676 8 The fluidized bed combustor modeling
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 129 Critical contributions in MHD power generation, Annual report, June 1976 - May 1977
0677 198 System model and data base system for fluidized-bed combustion
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0679 158 Critical contributions in MHD power generation, final technical progress report, June 1, 1975 - December 30, 1978, Vol. 1 and 2
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 150 Application of an interim fluidized bed combustor system model and an interim fluidized bed combustor data base management system to plant design
0681 179 Modeling of fluidized-bed combustion of coal: Final Reports, Volume I. Model evolution and development

LOUISI, Y
0179 211 Mass transfer in the liquid-phase Fischer-Tropsch synthesis
0280 157 Hydrodynamic properties of the Fischer-Tropsch slurry process

LOUKS, BM
0175 28 Coal gasification in the United-States

LOUW, CN
0377 81 Coal beneficiation

LOUX, N
0580 116 Element flow in aquatic systems surrounding coal-fired power plants. Wisconsin power plant impact study

LOVE, LJ
1081 77 Background correction in quantitative micelle-enhanced room-temperature phosphorescence via selective bimolecular quenching

LOVE, RG
0479 43 Recent experimental studies on the wearing of filter self-rescuers

LOVE, SL
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

LOVELL, HL
0274 10 The relation of coal characteristics to coal liquefaction behavior
0275 8 Dependence of coal liquefaction behavior on coal characteristics
0278 201 The relation of coal characteristics to liquefaction behavior. Quarterly progress report
0378 29 Does your preparation plant score par performance?
0477 94 Seventh Symposium on Coal Mine Drainage Research
1076 32 Characteristics of American coals in relation to their conversion into clear energy fuels

LOVETRO, DC
0277 17 Stannous chloride and cobalt molybdate-alumina catalysts in hydrogenolysis of solvent refined coal
0278 213 Stannous chloride and cobalt molybdate-alumina catalysts in hydrogenolysis of solvent refined coal

LOVINS, AB
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

LOW, JY
1077 48 Hydrotreatment of coal with aluminum trichloride/hydrochloric acid and other strong acid media

LOWDEN, L
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

LOWE, A
0679 111 Mineral matter in coal and the thermal performance of large boilers
0681 76 Fly ash characteristics and radiative heat transfer in pulverized-coal-fired furnaces

LOWE, HJ
0677 2 The Assessment and Maintenance of Electrostatic Precipitators for Pulverised Coal Boilers

LOWE, RW
0163 0 Underground gasification of coal, 1945 - 60: A bibliography

LOWELL, C
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

LOWELL, CE
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0280 232 Effects of impurities in coal-derived liquids on accelerated hot corrosion of superalloys
0281 109 The effects of trace impurities in coal-derived liquid fuels on deposition and accelerated high temperature corrosion of cast superalloys
0679 1 Airfoil cooling hole plugging by combustion gas impurities of the type found in coal-derived fuels
0679 27 Gas-turbine critical research and advanced technology support project: FY 1978 annual report
0681 14 Effect of sodium, potassium, magnesium, calcium, and chlorine on the high temperature corrosion of IN-100, U-700, IN-792, and MAR M-509

LOWELL, PS
0574 29 Potential byproducts formed from minor and trace components in coal liquefaction processes

LOWENBACK, WA
0577 70 Procedures manual for environmental assessment of fluidized-bed combustion processes

LOWENHAUPT, DE
1082 36 Diffuse reflectane infrared spectrometry of powdered coals

LOWENSTEIN, A
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

LOWMAN, RW
0681 188 Coal Technology '81, Vol. 3

LOWRIE, RL
0477 116 Western coal in the United-States energy picture

LOY, LD
0474 3 Fifth Symposium on Coal Mine Drainage Research
0476 22 Sixth Symposium on Coal Mine Drainage Research

LOY, MD
0579 99 Development and evaluation of methods for reduction of highwalls to approximate original contour

LOZHKIN, AF
1078 189 Activation of carbonized granules by steam

LU, CL
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

LUBON, P
0181 107 Thiocyanate bio-oxidation kinetics
0581 77 Bio-oxidation of thiocyanates typical of coal conversion effluents - Final report

LUBORE, SH
0181 139 Coal gasification: A source of CO//2 for enhanced oil recovery?

LUBOVIK, VI
1080 182 An investigation of coal fractions isolated by extraction with dimethylformamide

LUCAS, N
1179 40 Coal study

LUCE, RG
0179 8 Final report on study of heat-transfer through refractory lined gasifier vessel walls
0676 20 CDIF combustor instrumented test section. Final report
0678 196 Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Final report for the period June 1976 - Nov. 1977

LUCHT, LM
1081 181 Cross-linked structures in coals: models and preliminary experimental data

LUCIA, PC
0481 162 Mine waste disposal technology

LUCKE, VH
0679 74 Commercial power-plant design development for the coal-fired combined-cycle

LUCKIE, P
1080 135 Nuclear assay of coal, Volume 7: Coal rheology and its impact on nuclear assay

LUCKIE, PT
0376 1 The very special considerations involved in thermal drying of Western region coals
0377 74 Developing/modifying coal grinding procedures and equipment to produce predictable size distributions during coal preparation. Annual progress report, September 1976 - September 1977
0379 16 Developing/modifying coal grinding procedures and equipment to produce predictable size distributions during coal preparations. Annual progress report, October 1977 - December 1978

LUCKOW, WK
0177 122 Evaluation of ERDA-sponsored coal-feed system development

LUCOSTIC, CM
0579 6 Effects of acid-mine-drainage on a southwestern Pennsylvania stream

LUDEMA, KC
0381 37 How to select material properties for wear resistance

LUDWICZAK, JT
0479 211 Obtaining maximum benefits from pre-blasting surveys

LUDWIG, H
0681 50 Construction program for a large superconducting MHD magnet system at the coal-fired flow facility

LUENGO, CA
1078 24 Characterization of coal-ash with x-ray photoelectron-spectroscopy (ESCA)
1082 79 Characterization of Brazilian high-ash coals by small-angle x-ray diffraction methods

LUI, SS
0278 48 The Influence of precipitated asphaltenes on sedimentation of particles in coal liquids

LUK'YANENKO, LV
1078 143 Some general principles of the oxidation of coal by atmospheric oxygen

LUK'YANOVA, ZK
0179 310 Thermal degradation of natural polymers in the presence of zinc chloride
0479 177 Production and study of adsorbents from brown-coal

LUKACS, J
0282 137 A method for the chemical utilization of coal by liquid phase oxidation

LUKE, W
0380 98 Process and apparatus for preheating coal intended for use in coking installations

LUKICHEVA, V
1079 191 Coal of the Khabarovsk deposit as a raw material for the isolation of waxes and resins

LUKINA, EY
0181 143 Features of the carbonization of compositions of uncalcined petroleum coke with hard-coal pitch
1079 183 The influence of some characteristics of hard-coal pitches on the properties of compositions
1080 183 Features of the conditions for the formation of a carbonaceous material with a furnan binder

LUKOSHKO, ES
0781 37 A comparative study of the compositions of modern and fossil peats
1079 235 The change in the composition of lignin in the process of peat formation

LUKOVNIKOV, AF
0681 104 Products of the thermal degradation of brown coal modified with calcium hydroxide
0681 121 A thermochemical investigation of the low-temperature oxidation of heat-treated coals
0779 28 Paramagnetism of the petrographic components of hard coal
1077 79 Questions of the chemistry and structure of coals
1078 148 Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process
1080 96 Features of the thermal degradation of modified brown coals
1080 166 Solubility of the products of thermal degradation of modified brown coals
1081 116 Influence of water on the tendency of heat-treated brown coals to undergo oxidation

LUKOW, TE
0580 0 Environmental and climatic impact of coal utilization

LUMB, EC
0681 62 COLLOIL manufacture and application

LUMBAI, IN
0479 176 Oxidative chemiluminescence of waste pit rock

LUMPKIN, HE
1077 49 Characterization of coal products by mass-spectrometry
1078 79 Ultra high resolution mass-spectrometry analysis of petroleum and coal products

LUMPKIN, RE
0174 12 Coal processing technology
0176 43 Pyrolysis of carbonaceous materials with solvent quench recovery
0176 65 Pyrolysis with cyclone burner

LUMPKIN, RL
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

LUND, TE
0180 78 Coal Technology '80

LUNDBERG, RM
0174 12 Coal processing technology
0680 67 Combustion of western coal
1177 44 Symposium on coal dilemma: How and where to use it

LUNDBERG, WD
0279 96 Extending catalyst life

LUNDGREN, D
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

LUNDQUIST, GL
0378 17 Leaching of boron from coal-ash

LUNN, HG
0673 29 Combustion of residual fuel-oils in fluidized-beds
0681 2 Some advanced systems for power generation

LUNT, RR
0377 61 Application of scrubbing systems to low sulfur/alkaline ash coals
0579 51 Health and environmental impacts of increased generation of coal ash and flue gas desulfurization sludges

LUR'E, MV
0181 153 An investigation of the kinetics of the change in the group composition of the anthracene fraction on heat treatment
0380 127 Separation of washery tailings by density using hydraulic jigging
1078 97 Some physicomechanical properties of coal charge

LURIA, M
0681 68 Atmospheric oxidation of flue gases from coal-fired power plants - a comparison between conventional and

scrubbed plumes
0682 13 Model calculations of the chemical processes occurring in the plume of a coal-fired power plant

LURII, VG
0477 155 Engineering method for calculating the resistance of mechanized standing supports

LUSK, B
1181 28 The future of the coal industry

LUSK, BE
0478 9 What's in the surface mining rules

LUSS, D
0274 15 Aggregation of many coupled consecutive first order reaction
0672 2 Analysis of activation energy of grouped parallel reactions

LUTES, IG
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 163 Industrial fluidized bed steam generation

LUTH, RG
0179 74 Removal of organic constituents in a coal gasification process wastewater by activated sludge treatment

LUTHER, RB
0680 86 Power-plant cycle selection: A case study

LUTHRA, K
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

LUTHY, RG
0178 167 Analysis of waste-waters from high-Btu coal gasification plants
0178 180 Design of treatability studies on Hygas coal gasification pilot-plant waste-waters
0178 220 A synopsis of C-MU technical contributions to the DOE Coal Gasification Environmental Program, Second Annual Report for July 1977 - July 1978
0178 250 Comments concerning environmental assessment activities at the bi-gas pilot-plant
0178 255 Environmental assessment in the ERDA coal gasification development program. First annual report. July 1976 - July 1977
0178 258 Experimental analysis of biological oxidation characteristics of hygas gasification wastewater
0178 264 Manual of methods: preservation and analysis of coal gasification wastewaters
0178 275 Determination of cyanide levels in Hygas wastewater
0178 333 Experimental analysis of the leaching characteristics of residual Hygas coal gasification solids
0180 60 Determination of biological removal of organic constituents in quench waters from high-btu coal-gasification pilot-plants
0180 61 Biological treatment of a coal gasification process wastewater
0181 177 Evaluation of treatment technologies for water reuse in coal gasification
0181 223 Technology and use of lignite, Vol. 1 and 2
0578 68 Analysis of coal wastewater analytical methods: A case study of the hygas pilot-plant
0578 120 Biological treatment of hygas coal gasification wastewater
0580 143 Biological treatment of synthetic fuel wastewater
0580 154 Leach characteristics of coal-gasification char
0581 59 Treatment of coal coking and coal gasification wastewaters
1078 93 Characterization of effluents from the carbon-dioxide-acceptor coal gasification process

LUTTIN, K
0278 99 Pilot-plant studies of coal hydrogenation

LUTZ, S
0177 256 Proceedings of the third annual underground coal conversion symposium

LUTZ, RG
0681 115 Tennessee Valley Authority 20-MW AFBC pilot plant-design features and test program TVA/OP/ED&T - 81/32

LUXBACHER, GW
0480 216 The interrelationship between coal mine plant and ventilation system design

LYADOV, VV
0378 75 Classification of flotation tailings in hydrocyclones
0379 65 Commercial trials of the selective-flocculation process for cleaning coal slurries
0379 113 Improved dewatering of fine coal concentrate

LYAKH, VV
0480 195 Investigation of the stressed state of a gas-saturated rock mass near an ellipsoidal working

LYALL, KD
1181 43 Utilization of Australian coal - national and international perspectives

LYASHCHENKO, VI
0379 97 The chemically bound moisture of brown coals
1077 81 Sorption capacity of brown-coals

LYASHCHENKO, VP
1079 221 A mathematical model for predicting the quality of the coal-alkali reagent at the Semenova Montan Wax Factory

LYCZKOWSKI, RW
0178 344 Mechanastic theory for drying porous media
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0178 408 A simple model for locating the front of a reverse-combustion link from thermocouple-response data
0180 302 Solids circulation around a jet in a fluidized bed gasifier Final technical report for period September 1, 1978 - September 30, 1980

LYLE, ES
0476 21 Fourth Symposium on surface-mining and reclamation

LYMAN, FA
0678 213 Experiments in coal devolatilization and combustion

LYMAN, GJ
0380 5 On-stream analysis for ash in coal slurries

LYNCH, BM
1081 223 Determination of surface and bulk oxidation of coals by Fourier Transform Infrared Spectroscopy using a photoacousitc detector

LYNCH, LJ
1079 29 Plasticity of coal studied with nuclear-magnetic-resonance
1081 37 H nuclear spin-lattice relaxation in coal during heating
1082 9 Effect of thermal treatment on the interaction of brown coal and water: a nuclear magnetic resonance study

LYON, D
0177 104 First trials of Chemically Active Fluidized-Bed (CAFB) pilot plant on coal

LYON, S

0478 78 Human Resources in Canadian Mining: A preliminary analysis

LYON, FM
0379 106 The steel industry view of the need and degree of coal preparation

LYON, RK
0179 141 Coal science: Basic research opportunities
0681 133 Distribution of sulfur within a burning fixed bed of coal char

LYON, WS
0374 0 Coal utilization symposium - Focus on SO//2 emission control
1073 17 Trace-element mass balance around a coal-fired steam plant
1077 12 Trace-element measurements at the coal-fired steam plant

LYONS, AE
0476 22 Sixth Symposium on Coal Mine Drainage Research

LYONS, CJ
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 189 Coal Technology '81, Vol. 5

LYONS, LA
0481 103 German Creek: Queensland's next mine to come on stream

LYONS, PC
0782 6 Properties, origin and nomenclature of rodlets of the inertinite maceral group in coals of the central Appalachian basin, U.S.A.

LYSY, FJ
0172 7 Survey of coal availabilities by sulfur content

LYTLE, J
0178 190 Instrumentation for evaluation of in-situ recovery projects

LYTLE, M
0782 9 Computer modelling of the geology of the Coal Mountain Mine

LYTLE, FW
0281 356 Chemistry of trace element species in coal liquefaction processes
0282 10 Study of Ti in solvent-refined coal by x-ray absorption spectroscopy
1080 129 EXAFS studies of supported metal catalysts
1081 103 X-ray absorption spectroscopic investigation of trace vanadium sites in coal

LYTLE, JM
0278 16 Residence-time measurements in a coal hydrogenation process
0278 89 The effect of coal characteristics on the catalytic liquefaction of Utah coals
0279 109 A survey of methods of coal hydrogenation for the production of liquids
0280 29 Kinetics of coal liquefaction: Effect of catalyst, hydrogen concentration
0280 175 Mechanism of coal hydrogenation-liquefaction: Effect of temperature and coal particle size

LYTLE, RJ
0176 5 Using Electrical Methods to monitor the physical properties of a coal seam
0177 98 In-situ coal gasification burnfront mapping by monitoring reflected high frequency electromagnetic waves
0179 208 Use of high-frequency electromagnetic waves for mapping an in-situ coal gasification burn front
0478 308 Analytical bases for eletromagnetic sensing of coal properties - final report
1074 1 Coal-fracture measurements using in-situ electrical methods: Preliminary results

LYTTON, M
0280 344 The Impact of developing technology on indirect liquefaction
0281 149 The impact of developing technology on indirect liquefaction

LYUBCHENKO, LS
0779 28 Paramagnetism of the petrographic components of hard coal

LYUKSHIN, EN
1080 163 Dimensional and structural changes of pyrocarbon on heat treatment

MA, FK
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

MAA, PS
0275 21 Treatment of coal by alkylation or acylation to increase liquid products from coal liquefaction
0277 102 Coal liquefaction
0279 73 Stability of adamantane and its derivatives to coal liquefaction conditions, and its implications toward the organic structure of coal
0280 1 Alkylation: A beneficial pretreatment for coal liquefaction
0282 196 Coal conversion in the presence of added hydrogen sulfide

MABES, DL
0578 113 A biologist's manual for the evaluation of impacts of coal fired power plants on fish, wildlife, and their habitats

MABRY, RM
0477 163 Subsidence monitoring systems for undermined areas. Final technical report. Woodward-Clyde Consultants

MACAK, J
0179 322 Composition of phenolic effluent concentrate from coal gasification under pressure
1081 49 Analysis of pyridine bases isolated from a high-temperature coal tar by capillary gas chromatography

MACAL, CM
0181 199 Environmental implications of small fixed-bed gasifiers for industry
1076 27 Coal blending in Illinois

MACCRACKEN, MC
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

MACDONALD, S
0176 24 Koppers-Totzek coal gasification process
0176 46 Direct reduction with gas from the Koppers-Totzek coal gasification process

MACDONALD, DS
1174 0 26th Canadian conference on coal

MACDOUGALL, TA
0178 89 Symposium on Coal Refining, Proceedings

MACEFIELD, I
0280 17 Carbonization and liquid-crystal (mesophase) development. 16. Carbonizations of soluble and insoluble fractions of coal-extract solution

MACEK, J
0177 191 Mathematical modeling of the gasification of coal under pressure in a stationary bed

MACFARLAND, HH
0279 82 Alternate fuels can damage health

MACHADO, ER
0778 22 Coal resources of the Americas. Selected papers

MACHNIKOWSKI, J
1082 71 Study of the reaction of cokes with KOH under nitrogen

MACIAS, ES
1078 34 Simultaneous oxygen, carbon, nitrogen, sulfur and silicon determination in coal by proton induced gamma-ray analysis

MACIE, L
1081 111 Cross-polarization magic-angle spinning 13//C NMR spectra of coals of varying rank

MACIEL, GE
0179 119 Applications of cross polarization magic-angle spinning carbon-13 NMR to in-situ coal gasification
1077 5 Prospects for carbon-13 nuclear-magnetic-resonance analysis of solid fossil-fuel materials
1078 184 Carbon-13 NMR studies of coals and oil shales
1079 30 Characterization of organic material in coal by proton-decoupled carbon-13 nuclear-magnetic-resonance with magic-angle spinning
1081 190 C-13 NMR on solid samples and its application to coal science
1082 22 Carbon-13 nuclear magnetic resonance characterization of coal macerals by magic-angle spinning
1082 45 Structural resolution in the Carbon-13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic-angle spinning
1082 46 Spin dynamics in the carbon-13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic-angle spinning

MACIOROWSKI, AF
0580 168 An evaluation of the biological treatability of coal conversion wastewater

MACISAAC, D
0482 57 Devco has large-scale program to develop underground and surface facilities

MACK, GA
0681 211 Examining relationships between coal characteristics and the performance of TVA power plants Part 2: boiler efficiency

MACKAY, D
0381 110 Deashing of low-quality Nova Scotia coals by spherical agglomeration

MACKAY, AM
0578 49 Water solubility of borate in coal-ash

MACKAY, BR
0446 0 Coal areas of Alberta

MACKAY, GD
0681 209 Fluidized bed combustion: a viable alternative for residential heating

MACKENTHUN, KM
0574 2 Environmental Quality and Standards for Water

MACKENZIE, FT
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

MACKENZIE, KJ
1078 132 Gaseous exothermic oxidation of coal. 2. Aerial oxidation of fresh coal

MACKINNON, RJ
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MACKNICK, AB
0179 198 Vapor pressures of high-molecular-weight hydrocarbons
0179 302 Heavy hydrocarbons from coal gasification vapor pressures and dew points - dissertation

MACKO, JE
0177 196 Instrumentation development and application at the Westinghouse coal gasification PDU
0178 338 Advanced coal gasification technology

MACKOWSKY, MT
0677 82 Analysis of mineral matter in coals of the Ruhr under gasification conditions
1077 27 Prediction methods in coal and coke microscopy

MACLAUCHLAN, RS
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

MACLEAN, AR
0477 89 Room-and-pillar mining at Devco's Prince mine
0480 219 Proceedings: Direction of Coal Research in Eastern Canada

MACMILLAN, JS
0478 78 Human Resources in Canadian Mining: A preliminary analysis

MACMILLAN, NH
0477 184 Chemomechanical phenomena in the grinding of coal final report, February 1976 - May 1977
0779 48 Chemomechanical behavior of coal
1079 1 On the measurement of hardness in coal

MACNAB, AJ
0177 94 Report on corrosion and erosion of high-Btu gasifier components

MACNABB, GM
1175 0 27th Canadian conference on coal

MACNEILL, JM
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MACPHAIL, RW
1175 0 27th Canadian conference on coal

MACPHEE, JA
0282 174 The role of the water-gas shift reaction in the upgrading of low-grade oxidized coal from Western Canada for conversion processes
0681 192 Upgrading of inert-rich oxidized coal from western Canada with reducing gases to improve combustion performance
1081 55 C n.m.r. as a probe for the characterization of the low-temperature oxidation of coal

MACPHERSON, RE
0379 4 Dry coal handling and feeding test facility feasibility study

MACRISS, RA

0181 40 Process optimized for high pressure gas cleanup

MACYK, T
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III

MADDEN, R
0481 104 The noise exposure of operators of mobile machines in US surface coal mines, 1979

MADDOCK, T
0178 272 Coal processing technology, Volume IV
0178 353 Water usage in an integrated coal gasification plant
0577 18 Analysis of water usage for an integrated coal gasification plant

MADDOCKS, RR
0278 57 Advances in SRC technology
0279 68 Supercritical extraction of coal
0379 40 Chemical communication: An improved route to clean coal

MADDOX, JB
0477 92 Fifth Symposium on Surface-mining and reclamation

MADENBURG, RS
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MADIBA, CC
0581 16 Pixe analysis of time-sequence 'streaker' filters from Johannesburg

MADON, RJ
0177 60 Effect of sulfur on the Fischer-Tropsch synthesis
0177 157 Development of improved Fischer-Tropsch catalysts for production of liquid fuels
0281 40 Fischer-Tropsch synthesis on a precipitated iron catalyst

MAEDA, K
0182 57 Coal hydrogenolysis in the presence of NaOH

MAEKAWA, Y
0276 89 Mechanism of high-pressure hydrogenolysis of Hokkaido coals (Japan). 1. Simulation of product distributions
0277 145 The effect of hydrogen pressure on the hydrogenation reaction of coal
0279 151 Hydrogenation reactivity of petrographic composition of coal
0279 162 Studies on coal hydrogenation reaction using high pressure differential thermal analysis
0280 5 Viscosity of coal paste under high hydrogen pressure
0281 226 Application to field-ionization and field-desorption mass spectrometry to the analysis of coal-derived oil
0282 118 Determination of field ionization relative ion sensitivities in mass spectrometry of coal-derived oil components
0282 185 Elucidation of structural and hydroliquefaction characteristics of Yallourn brown coal by carbon-13 CP/MAS nmr spectrometry
1079 28 Field desorption mass spectrum of coal-derived liquid
1079 121 Quantitative-13 C n.m.r. spectroscopy of a coal-derived oil and the assignment of chemical shifts
1080 15 Derivation of structural parameters for coal-derived oil by carbon-13 nuclear-magnetic-resonance spectrometery

MAGEE, EM
0177 90 Coal processing technology, Volume 3
0574 6 Trace-elements and potential pollutant effects in fossil-fuels
0574 21 Overall environmental considerations of conversion technology
0574 26 Technology needs for pollution abatement in fossil-fuel conversion processes
0677 241 Application of fluidized-bed technology to industrial boilers

0677 255 Studies of the pressurized-fluidized-bed coal combustion process

MAGEE, RA
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 214 Sampling and analysis of synthetic-fuel processes
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0181 94 Application of Kosovo (Lurgi) gasification plant test results to pollution control process design
0679 110 Trace-element emissions from coal-fired power-plants

MAGEE, RS
0174 10 Hydrogen as a fuel, Semi-annual Technical Report

MAGIROS, P
0180 312 Alternate fuel options for the pulp and paper industry

MAGLICHEVA, A
0380 172 Changes in the microcomponent composition during the grinding of hard coals

MAGNANI, CF
0175 34 Mathematical Modeling of the stream method of underground coal gasification

MAGNUSON, MO
0374 3 First Symposium on Mine and Preparation plant refuse disposal

MAGUIRE, B
1081 167 Moessbauer effect study of Victorian brown coal

MAHAJAN, K
0179 178 The tri-gas gasification process

MAHAJAN, HL
0167 2 Underground gasification techniques

MAHAJAN, OP
0178 222 Unification of coal-char gasification reaction mechanisms
0179 142 Reactivity of heat-treated coals in steam
0579 25 Effect of inorganic matter removal from coals and chars on their surface areas
1080 100 Measurement of swelling of coals in organic liquids - A new approach
1081 9 Low temperature air oxidation of caking coals: Fourier transform infrared studies

MAHAN, WM
0680 87 Partial replacement of coke in cupola operation

MAHER, JM
0476 23 Second Symposium on Underground Mining

MAHER, SW
1175 0 27th Canadian conference on coal

MAHLE, NH
0580 95 The formation of chlorodibenzo-p-dioxins by air oxidation and chlorination of bituminous coal

MAHONEY, JA
0279 218 Coal liquefaction catalyst development, Quarterly Progress Report No. 1, March - June, 1979
0279 219 Coal liquefaction catalyst development, Quarter Progress Report No. 2, July - September, 1979
0279 220 Coal liquefaction catalyst development, Quarterly Progress Report No. 3, October - December, 1979

MAHONY, B
1081 14 Study of the relation between the phosphorus content of coal and coke

MAHR, D
0381 9 Evaluation of coal blending systems

MAI-VIET, T
0681 76 Fly ash characteristics and radiative heat transfer in pulverized-coal-fired furnaces

MAIENSCHEIN, JL
0280 340 The effect of zinc chloride on organic solvents and compounds modeling certain bonds in coal

MAIFIELD, DL
0178 207 Considerations in sizing coal gasification plants, Final Report

MAIHIOT, RE
0679 38 Evaluation of ceramic refractories for corrosion behavior by molten slag-seed mixture of a coal-fired open-cycle MHD system

MAIKHER, PB
0480 170 Automation of charge distribution over the sections of a coal bunker

MAIMONI, A
0374 0 Coal utilization symposium - Focus on SO//2 emission control

MAINS, GJ
1077 44 Photochemistry hydrogen atoms as a structural probe of the surface of coal
1080 137 Interaction of H atoms with ultrafine coal dust - Final technical report

MAINWARING, DE
0380 78 Method of removing hydrocarbon liquids from carbonaceous solid material with which they are mixed and using this method for deashing coal

MAIR, BJ
0278 164 An improved method for the analysis of coal liquids

MAISEL, DS
0178 20 Industrial organic chemical feedstocks in the future

MAJKRZAK, RS
0181 223 Technology and use of lignite, Vol. 1 and 2

MAJOR, MW
0780 30 Seismic seam waves in the coal basin of Colorado
0780 31 Hole-to-Hole seismic seam wave observations

MAJUMDAR, S
0281 187 Solvent extraction of coal at low pressure with a coal tar oil solvent-anthracene oil

MAJUMDER, A
0177 106 Role of producer-gas in replacing fuel-oil
0178 160 Coal gasification for dual cycle power generation

MAKABE, M
0181 35 Effect of pressure and temperature on the reaction of coal with alcohol-alkali
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0281 107 Dissolution of coal with NaOH-alcohol: effect of alcohol species

0281 124 Effect of precarbonization temperature on liquefaction of lignites
0281 137 Solubility increase of coals by treatment with ethanol
0281 166 Reduction of coal with hexamethylphosphoramide-Na-t-BuOH
0282 38 Coal liquefaction by the hydrogen produced from methanol
1078 45 Extraction increase of coals treated with alcohol sodium hydroxide at elevated temperatures
1079 74 Structural analysis of Na//O//H - alcohol treated coals
1079 129 Reaction mechanism of alkali-alcohol treatment of coal
1079 202 Effect of hydrogen pressure on the reaction of NaOH-alcohol-coal
1079 232 Structural analysis of quinoline extracts and hydrolysis products of coals
1080 132 Reduction of coal in hexamethylphosphoramide-Na-t-BuOH and the molecular weight distribution of pyridine-soluble material
1081 161 Solubilities of Taiheiyo (Japan) coal in a series of alcohols

MAKAR'EV, SS
0379 57 Hydrogenation of cyclopentadiene under equilibrium conditions

MAKAREV, SV
0277 67 Liquid products from coal

MAKAROV, GN
0380 160 Coking a preheated charge with a high content of gas coal at the Western Siberia Iron and Steel Works
1079 156 Study of coal and nonvolatile mobile liquid products of its thermal transformations
1079 164 Binding properties of pitch from shale carbonization oil
1079 204 Forms of nitrogen in hard coals and their transformation in the coking process
1080 171 Physicochemical properties of lean coal as a carbonaceous reducing agent

MAKAROV, UV
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MAKEEVA, GP
1079 189 An investigation of the thermal destruction of cottongrass peat in the presence of orthophosphoric acid

MAKHIN, VS
0478 297 Inhibition of the ignition of coal-dust aero-colloids

MAKINO, K
1078 141 A cause of exothermic heat evolution in hydrogenolysis of coal
1078 188 Application of a single-cell high-pressure DTA technique to coal hydrogenation research
1079 120 Activity tests of various catalysts for hydrocracking of coals by means of high pressure differential thermal analysis

MAKINO, M
0179 18 Relation between formation rates of methane and hydrogen on pyrolysis of coal under pressure
0179 184 Factors affecting methane evolution on pyrolysis of coal under pressure
0181 24 General description of fundamental studies on coal gasification under pressure
0181 34 Effects of hydrogen pressure on hydrogasification of Taiheiyo (Japan) coal

MAKITA, H
0280 228 Effects of phenol on the properties of pitch produced thermally from the petroleum vacuum residue

MAKO, PF
0282 81 Coal to oil and gas Sasol one, two and three
1179 46 Coal utilization - industrial energy parks

MAKOROV, GM
1080 165 A study of the structure of the solid residues formed in the oxidative pyrolysis of primary coal tars

MAKOWER, AD
0479 119 Fire retardance tests for materials used underground

MAKOWSKI, A
0279 59 Activity of ni-moly catalysis in tetralin or decalin dehydrogenation and hydrogenation of coal-extract solution

MAKSIMENKO, VI
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MAKSIMOV, AM
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

MAKSIMOV, OB
1078 156 Reduction of humic-acid-oxidates by lithium-aluminum-hydride in order to study their structure

MAKSIMOV, YV
0179 241 Effect of impurities on synthesis from carbon-monoxide and water-vapor

MAKSIMOVA, NA
0679 129 Investigation of the influence of the composition of the gaseous medium on the formation of the properties of carbonaceous materials in firing

MAKSIMOVIC, SD
0481 86 Control of methane by ventilation of shafts during raise drilling

MALANI, S
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

MALE, SE
0380 15 Magnetic measurements on coal

MALECKI, EJ
1180 33 Siting energy facilities in the USA: Policies for the Western States

MALEK, JM
0275 6 Hydroliquefying coal or like carbonaceous solid materials
0276 26 Method for separating liquid and solid products of liquefaction of coal or like carbonaceous materials

MALEKHA, I
0177 191 Mathematical modeling of the gasification of coal under pressure in a stationary bed

MALES, R
0980 7 Coal supply: new strategy for an old game

MALES, RH
0581 91 Environmental impacts of coal utilization

MALETTE, MJ
1077 22 Hot briquetting study using Western-Canadian coal samples

MALHERBE, J
0179 244 Nuclear methane reforming for coal gasification

MALIK, AU
0380 53 Corrosion behavior of stainless steels coated with coal ash deposits at 800-1000-degrees-C

MALIKOV, MM
0677 149 Carbon-dioxide magnetohydrodynamic laser

MALKI, KW
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

MALLARY, R
0477 92 Fifth Symposium on Surface-mining and reclamation

MALLARY, ML
0380 149 Coal preparation using magnetic separation, Volume 2

MALLAVARPU, R
0679 169 Gaseous electrode development - final report

MALLETT, MW
0881 14 The effect of saline concentration on the viscous properties of lignite water suspensions

MALLIAH, KT
0181 223 Technology and use of lignite, Vol. 1 and 2
0677 77 Development of fluidized combustion for Indian coal
0678 128 Development of fluidized combustion boilers for Indian coals
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MALLICOAT, WR
0478 116 Truss bolting with point resin anchorage

MALLINSON, RG
0280 331 Reactions of three double ring heteroaromatic model coal compounds in excess tetralin

MALLORY, CK
0177 275 Coal conversion: Practical and legal implications

MALM, BO
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MALOLETNEV, AS
1080 150 Determination of the genetic type of anthracites from the index of the anisotropy of the reflection of the vitrinite
1081 146 Influence of the degree of metamorphism and reduction of the anthracites of the Donbas on the properties of the products of their thermal treatment

MALONEY, DJ
1080 186 The effects of preoxidation on the swelling and softening of bituminous coals
1082 5 Low-temperature air oxidation of caking coals. 2. Effect on swelling and softening properties

MALONEY, KC
0180 78 Coal Technology '80

MALONEY, KL
0377 6 Western Coal use in Industrial Boilers
0380 153 Sulfur capture in coal flames

MALOY, MA
0380 50 Characterization of coal refuse

MALTBY, PD
0379 36 Bench and pilot-plant beneficiation of calcium carbonate, sand and other industrial minerals

MALYUZHONOK, GP
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MAMANE, Y
0681 173 Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM

MAMANTOU, G
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

MAMANTOV, G
0580 85 Resistance to photochemical decomposition of polycyclic aromatic hydrocarbons vapor-adsorbed on coal fly ash
0581 46 Nonphotochemical decomposition of fluorene vapor-adsorbed on coal fly ash
1080 7 Oxidative transformations of polycyclic aromatic hydrocarbons absorbed on coal fly ash
1081 104 Matrix isolation Fourier transform infrared spectrometric detection in the open tubular column gas chromatography of polycyclic aromatic hydrocarbons
1081 184 Characterization of coal-derived materials by matrix isolation spectroscopy
1082 75 Analysis of polycyclic aromatic compounds containing nitrogen and oxygen by matrix isolation fourier transform infrared spectroscopy

MAMLOUK, MS
1079 176 Evaluation of the use of indirect tensile test results for characterization of asphalt-emulsion-treated bases

MAMOUN, M
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

MAMROSOV, AD
1080 201 Heat-transfer coefficients of the mass being coked in industrial coking

MAMULA, N
0778 3 Remote-sensing methods for monitoring surface coal mining in the Northern Great-Plains

MAMULASHVILI, AI
0379 123 Automated dispensing of coal blend constituents

MANAGAN, WW
0176 98 A study of the state-of-the-art of instrumentation for process control safety in large-scale coal gasification, liquefaction, and fluidized-bed combustion systems. Final report
0177 199 Review of the state of the art of flow and analysis instruments
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

MANAHAN, SE
0179 311 Trace element distributions in coal gasification products
0180 204 Chromatographic characterization of organic by-products of simulated in situ coal gasification
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0181 178 Interchange of pollutants between groundwater and mineral strata as applied to waste chemical dumps and in-situ coal gasification sites
0182 26 A simple solvent extraction scheme employing dissolved organic carbon analysis for the characterization of organic by-products from simulated in situ coal gasification
0578 11 Coal humic substances for pollution control in the synthetic-fuels industry
0578 84 Coal humic substances and their application to pollution control in the synthetic fuels industry
0579 34 Interchange of metals and organic matter between water and sub-bituminous coal or lignite under simulated coal

slurry pipelines conditions
0580 108 Influence of coal humic acid on the growth of chlorella vulgaris algae
0581 73 Sulphur dioxide sorption by humic acid-fly ash mixtures
0581 85 Environmental chemical investigations of trace element mobilization in synthetic fuels manufacture
0879 14 Metal removal from water by granular coal in coal slurry pipelines
1076 11 Coal chemistry: Aspects of analysis, structure, reactions, conversion, and byproducts
1079 91 Effects of organic and inorganic binding on the volatilization of trace-elements during coal pyrolysis

MANAKER, A
0680 187 Near term commercialization of MHD power generation using coal/oil fuel

MANAKER, AM
0681 96 Tennessee valley authority's atmospheric fluidized bed combustion projects

MANCINI, RA
1181 27 Models for computer assisted coal purchasing

MANCUSO, JJ
0781 34 Precambrian coal or anthraxolite: A source for graphite in high-grade schists and gneisses

MANDELBAUM, M
0280 91 Analysis of Polish coal liquids

MANEVAL, DR
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0376 3 Second Symposium on Coal Preparation
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar
0475 10 First Symposium on Underground Mining, Volume II
0476 22 Sixth Symposium on Coal Mine Drainage Research
0477 94 Seventh Symposium on Coal Mine Drainage Research

MANFRED, R
0680 228 Coal use in boilers designed for oil and gas firing

MANFRED, RK
0681 189 Coal Technology '81, Vol. 5

MANFREDO, LJ
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MANFROY, W
1076 24 Process for grinding coal or ores in a liquid medium

MANGELSON, NF
0180 75 Analytical study of the effluents from a high-temperature entrained flow gasifier

MANKIEWICZ, P
0578 42 Water-pollution control for coal slurry pipelines, Final report

MANN, CE
0479 0 Coal and Profitability: An Investor's Guide
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky
0579 104 Optimizing sediment control systems

MANN, JR

0175 7 Experience and plans of Britain in underground coal gasification
0177 256 Proceedings of the third annual underground coal conversion symposium

MANN, RM
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0679 110 Trace-element emissions from coal-fired power-plants

MANN, RS
0181 37 Steam gasification of lignite char
0181 232 Catalytic gasification of lignite char
0281 339 Conversion of lignite coal into oil

MANNE, AS
1177 11 An econometric analysis of energy over the next 75 years

MANNERING, JV
0577 47 Vegetative water erosion control for agricultural areas

MANNINEN, S
1081 142 Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl

MANNING, ET
0881 47 Coal Technology '81, Vol. 1

MANNING, GB
0178 175 Design of a high efficiency combined-cycle electric-power-plant for low-Btu coal gas
1179 41 Effect of environmental regulations on the General Electric research and development program for combustion turbines using coal-derived fuels

MANNING, JA
0581 21 Trends in Benzo(a)Pyrene, 1966-77

MANNIX, R
0379 120 Manufacturing metallurgical coke

MANNY, EH
0580 86 Reducing No//x discharges: Easy as ABC
0677 104 Studies of waterwall corrosion with staged combustion of coal

MANSHILIN, VV
0578 100 Present state and prospects of the development of processes for the hydrodesulfurization and hydrocracking of residues

MANTHOS, GJ
0177 230 Evaluation of a high-pressure Saarberg/Otto gasifier

MANUEL, W
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MANULA, CV
0480 13 Analysis of equipment requirements for anthracite open-pit mining

MANZ, OE
0580 153 Potential effects on groundwater of fly ash and FGD waste disposal in lignite surface mine pits in North-Dakota

MANZIONE, AV

1077 4 New method for sulfur concentration measurements in coal and char

MAPLES, S
0179 234 A mass and energy balance of a Wellman-Galusha gasifier
0680 74 Carbonate sulfur sorbent studies

MARCAK, H
0478 296 Statistical interpretation of shock series in mining

MARCH, HC
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

MARCHAND, D
0478 94 BOM tests tunneling for coal use

MARCHANT, GH
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

MARCHENKO, AY
1079 233 A study of oxidative ammonolysis of Maikubenskii coal

MARCHENKO, LN
0477 156 The role of water in the blasting process

MARCHEWKA, TL
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

MARCHIONI, DL
0781 24 Influence of petrographic composition on the free-swelling index of coal and on its use as a weathering parameter
0781 30 A preliminary assessment of coal slurry pH and coal flotation as parameters of weathering in western canadian coals

MARCONI, LG
1080 146 Anomalous coking properties of the Wolgan Seam, NSW Australia

MARCOTTE, WR
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

MARCOURT, M
0180 274 Coal gasification by steam/air mixtures and under pressure

MARCUS, LH
0180 172 Preparation, properties and applications of transition metal carbonyls: citations from the energy data base, June 1976 - May 1980
1080 119 High performance liquid chromatography: citations from the energy data base, June 1976 - May 1980

MARCUS, MD
0580 114 Bibliography of aquatic ecosystem effects, analytical methods and treatment technologies for organic compounds in advanced fossil-fuel processing effluents

MARCUS, RD
0681 216 Performance of a bottom discharge blow vessel conveying pulverized fuel ash

MARDER, TB

0380 130 The role of closo-nido tautomerism in rhodacarborane catalysis

MAREE, P
0580 181 Interesting features of a coal dump-ash dam at Kilbarchan colliery

MARGARITIS, PJ
0177 86 Development of the Westinghouse coal gasification process - A status report
0177 90 Coal processing technology, Volume 3
0178 76 Process development for the Westinghouse advanced fluidized-bed coal gasification system
0576 12 Operation of the Westinghouse coal gasification PDU
0678 121 Simulation and modeling of start-up and shutdown in a pilot-scale recirculating fluidized-bed coal devolatilizer

MARGLER, LW
0578 42 Water-pollution control for coal slurry pipelines, Final report

MARGOLF, CW
0477 93 Third Institute on Coal Mine Health and Safety

MARGOLIS, M
0280 78 Phenol analysis

MARGOLIS, DL
0678 265 An analytical study of intake tuning for helical-rotor expanders

MARGRAVE, JL
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MARGUSTE, MA
0179 308 The additional thermal decomposition of semicoke obtained from kuckersite in an apparatus with a solid heat carrier

MARIE, A
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

MARINKOVIC, M
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MARION, L
0580 97 Biological, mechanical methods compete for wastewater-cleanup job

MARION, CP
0176 59 Purified synthesis-gas and carbon monoxide

MARKANT, HP
0677 5 A description of the direct coal-fired MHD facility at the University of Tennessee Space Institute

MARKEY, RL
0479 202 Impact of OSM's regulations on deep mines

MARKIEWICZ, WD
0677 238 Design of superconducting magnets for MHD applications

MARKINA, TI
0281 216 Production of synthetic liquid fuel from Kansk-Achinsk coal
0378 74 Thermal preparation of coals using vortex chambers

1079 215 The kinetics of the change in yield of residual volatile matter during thermal processing of Irsha-Borodino coal in swirl chambers

MARKLEY, CD
0180 78 Coal Technology '80

MARKON, G
1179 51 World coal trade

MARKOVA, KI
0679 172 On the autooxidation of the coals used at the Kremikovtsy coke works
0680 127 Study of initial oxidation processes in bituminous coals and anthracites by manometric methods

MARKOWSKI, GR
0682 14 Size distribution of fine particles from coal combustion

MARKS, WL
0175 45 Improvements in or relating to the gasification of coal
0181 140 High voidage fluidization - the prediction of particle and fluid velocities

MARKSBERRY, CL
0180 78 Coal Technology '80

MARKUS, GA
0379 66 Dephenolization of spent soda solutions with quinoline bases

MARKUSZEWSKI, R
0377 15 Advanced development of fine coal desulfurization and recovery technology
0380 34 Oxydesulfurization of coal treated with methyl iodide - implications for removal of organic-sulfur
0381 83 Evaluation of the removal of organic sulfur from coal
0381 92 Physical and chemical coal cleaning

MARLAND, G
0578 3 Question mark over coal. Pollution, politics, and carbon dioxide
1177 47 Net energy analysis of five energy systems

MARLEY, SJ
0478 46 Computer aided mine planning model

MARLI, F
1080 193 The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979

MARLOWE, WH
0380 31 Pelletizing cleans up high-sulfur coal
0381 0 Development of the clean pellet fuel process - A progress report

MARNELL, P
0180 78 Coal Technology '80

MARONEK, DM
0480 83 Development of Mycorrhizal fungus isolates for adaption of tree seedlings for stripmine reclamation

MAROUDAS, NG
0166 0 A note on the reaction mechanism in the underground gasification of coal

MAROVELLI, RL

0480 29 Overview on coal mining research progress in the United-States in 1979 and 1980

MARPLE, VA
0478 15 An evaluation of the GCA-respirable-dust-monitor-101 - 1
1077 69 Dynamic particle size measurement of coal-dust

MARQUEEN, TJ
0178 272 Coal processing technology, Volume IV

MARRACCINI, LC
0475 10 First Symposium on Underground Mining, Volume II

MARRETT, R
0381 52 The manufacture of high-value carbon from coal-tar pitch

MARSDEN, MH
0480 139 Strip mining at Arnot Colliery

MARSH, H
0181 29 Catalytic gasification of metallurgical coke by carbon dioxide using potassium salts
0280 17 Carbonization and liquid-crystal (mesophase) development. 16. Carbonizations of soluble and insoluble fractions of coal-extract solution
0280 18 Carbonization and liquid crystals (mesophase) development. 15. A common stage in mechanisms of coal liquefaction and of coal blends for coke making
0280 20 Carbonization and liquid-crystal (mesophase) development. 18. Carbonization of coal-extract solutions (nonhydrogenated): Influence of digestion conditions upon optical texture of cokes
0280 21 Carbonization and liquid-crystal (mesophase) development. 17. Co-carbonization of a solvent-refined coal with petroleum pitches and hydrogenated coal-extract solution
0281 52 Effects of additions of petroleum coke in coals upon strengths of resultant cokes
0281 121 Hydrogen donor and acceptor abilities of pitch: Proton NMR study of hydrogen transfer to anthracene
0380 48 Carbonizations under pressure of chloroform soluble material of coking vitrinite
0381 30 Carbonization and liquid-crystal (mesophase) development. 21. Replacement of low-volatile caking coal by petroleum pitch in coal blends for metallurgical coke
0680 34 Carbonization and liquid crystals, (mesophase) development. 14. Co-carbonization of coals with A240 Ashland petroleum pitch: Effects of conditions of carbonization upon optical textures of resultant cokes
1079 58 Spin-diffusion effects in spin-lattice relaxation in coals
1079 140 The effects of impregnation of coal by alkali salts upon carbonization properties
1080 23 Protium NMR study of the co-carbonization of hydrogenated anthracene oil with coal-tar pitch and coal
1081 31 Microscopy study of bonding in co-carbonizations between coke grist from coal-extract solution and coal-tar binder
1081 70 Carbonization and liquid-crystal (mesophase) development. 19. Co-carbonization of oxidized coals with model organic compounds
1081 71 Carbonization and liquid-crystal (mesophase) development. 20. Co-carbonization of a high-volatile caking coal with several petroleum pitches
1081 72 Carbonization and liquid-crystal (mesophase) development. 22. Micro-strength and optical textures of cokes from coal-pitch co-carbonizations
1081 79 Carbonization of coal blends: mesophase formation and coke properties
1081 87 High-temperature Proton NMR study of oxidized coal
1081 108 Nuclear magnetic proton relaxation studies of oxidized coals
1081 152 The role of liquid crystals in the formation of graphitizable carbons (cokes)
1082 71 Study of the reaction of cokes with KOH under nitrogen
1082 73 Structure in a coking coal vitrinite - a high resolution electron microscopy study

MARSHALL, M
0280 152 Hydrogenation of ion-exchanged Victoria brown coals
0281 48 Direct hydrogenation of Victorian brown coal lithotypes
0282 15 Synergistic catalytic effect in the hydrogenation of Victorian brown coals

MARSHALL, AR
0679 17 Experiences and results of fluidized-bed combustion plant at Renfrew

MARSHALL, CL
0479 239 A brief analysis of MSHA training regulations

MARSHALL, CT
0281 90 The design and calibration of the coal feed system and reactor of a coal pyrolysis unit

MARSHALL, HA
0179 251 SNG from coal by catalytic gasification
0180 128 Process for the production of a chemical synthesis gas from coal

MARSHALL, HP
0277 36 An experimental investigation of a coal slurry fueled diesel-engine
0680 124 Performance of a diesel engine operating on raw coal-diesel fuel and solvent refined coal-diesel fuel slurries

MARSHALL, JH
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

MARSHALL, LC
0476 2 Design and evaluation of improved surface coal mine overburden handling and coal extraction techniques

MARSHALL, RE
0475 9 First Symposium on Underground Mining, Volume I

MARSTON, C
0676 38 CDIF-MHD generator system conceptual design - final report. Section 1, Analysis

MARSTON, CH
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0679 162 Coupled generator and combustor performance calculations for potential early commercial MHD power plants
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

MARSTON, PG
0675 11 Annual report on the MHD high performance demonstration experiment, Nov. 1973 - April 1975

MARTEN, JC
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

MARTEN, JH
0176 15 Winkler technology for clean-fuels from coal
0177 37 Pressure reaction cuts gasification costs

MARTIN, B
1081 99 Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe

MARTIN, E
0180 219 Characterization of residues from selected coal conversion processes

MARTIN, J
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MARTIN, P
0279 143 Filtration process and equipment studies for coal liquefaction processes - final report

MARTIN, DM
0380 168 Solvent pretreatment of feed coal for briquetting

MARTIN, EH
0477 42 Coal resource of the Hat-Creek-Valley could be used in several ways.
1177 29 The 29th Canadian conference on coal

MARTIN, GA
0181 258 Chemistry of silica-supported catalysts: preparation, activation and reduction

MARTIN, GB
0574 24 Environmental consideration in the use of alternate clean-fuels in stationary combustion processes.
0580 109 Mechanisms of nitrogen oxide (NO//x) formation and control: Alternative and and petroleum-derived liquid fuels

MARTIN, GR
0479 74 Federal coal leasing

MARTIN, HA
0779 33 Stratigraphic palynology of the Mooki Valley, New South Wales

MARTIN, JF
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0380 135 Dealing with abrasion-corrosion
0478 146 Neutralization options for acid-mine-drainage control
0578 20 Environmental impacts of coal transportation and storage
0676 13 Development program for MHD direct coal-fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1975
0680 61 Description of the DOE coal-fired MHD facility (CFFF)
0680 192 Description of the DOE MHD coal-fired flow facility (CFFF)

MARTIN, JR
0180 13 Cryogenics for syngas processing
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0580 180 C-E dry scrubber systems: application to western coals
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

MARTIN, JW
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 84 Design considerations for an in-situ gasification test of Eastern bituminous coals
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 85 Initial results from a linked-vertical-well field test in bituminous coal
0179 99 Pricetown-I - Instrumentation and preliminary data
0179 263 Pricetown I - in-situ coal conversion field test for bituminous coals
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MARTIN, PC
0178 272 Coal processing technology, Volume IV
0277 78 Studies on the filtration of liquefied coal in a rotary leaf pressure precoat filter

MARTIN, PS
0477 85 The Current status of the Canadian coal industry

MARTIN, SE

1179 62 A quantitative analysis of the impact of government regulations on the coal industry

MARTIN, TG
0178 121 Gas extraction of a western sub-bituminous coal
0280 327 An investigation of the oxygen and nitrogen groups in supercritical gas extracts of coal by NMR
0281 26 Application of methylation to the separation of coal extracts
1079 35 Structural analysis of supercritical-gas extracts of coals
1080 134 Structural studies on coal extracts
1080 197 Insights into the chemical structure of coal from the nature of extracts
1082 74 Differential-pulse voltammetry at the Hanging-Mercury-Drop electrode for identification of aromatic structures in coal extracts

MARTIN, WC
0374 0 Coal utilization symposium - Focus on SO//2 emission control

MARTIN, WF
1178 7 Energy for the third world

MARTIN, WR
0179 262 Pressure vessels for coal conversion systems

MARTIN-GAUTIER, AL
0676 31 Fluidization technology, volume 1

MARTINEZ, PR
0280 171 Identification and quantification of polynuclear aromatic compounds in synthoil by room-temperature phosphorimetry.
0281 47 Direct determination of selected polynuclear aromatic hydrocarbons in a coal liquefaction product by synchronous luminescence techniques

MARTINEZ-SANCHEZ, M
0678 59 Potential effects of coal slag condensation on plasma conductivity in MHD generators
0680 207 Studies of MHD generator performance with oxygen enriched coal combustion

MARTINI, Y
0676 32 Fluidization technology, volume 2

MARTINO, F
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

MARTSINKEVICH, GI
1077 60 Electrical conductivity of gas saturated coals

MARTYNOV, AP
1079 209 Influence of the conditions of grinding a coke-pitch composition on the properties of fine-grained graphite
1080 185 Infulence of the mechanochemical oxidation of coke-pitch compositions on the specific electrical resistance of carbon materials

MARTYNOV, YV
0380 145 Investigation of suspended matter flocculation in a centrifugal mixer

MARTYNOVA, MI
0680 217 An investigation of the tendency to undergo spontaneous combustion of coals of new deposits of the Kuzbass

MARUHNIC, P
0882 59 Coal-oil slurry pipeline process

MARUVADA, SN
0681 42 Application of reliability techniques to mature, near-term and future coal utilization technologies

MARWIG, UD
0178 89 Symposium on Coal Refining, Proceedings

MARZEC, A
0279 75 Heterocompounds present in asphaltenes from various products of coal hydrogenation
1077 38 Asphaltenes and preasphaltenes - components of an original hvb bituminous coal
1079 139 Bitumous coal extraction in terms of electron-donor and acceptor interactions in the solvent/coal system
1081 16 Chemical structure of coal and mechanism of its extraction
1081 32 Molecular components of coal and coal structure
1082 58 Molecular structure of bituminous coal studied with pulse nuclear magnetic resonance

MARZILGER, B
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MASHFORD, RC
0280 144 Production of volatile hydrocarbons

MASHIMO, K
1082 6 Determination of bridgehead aromatic carbons in coal-derived materials

MASKARINEC, MP
1080 193 The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979

MASKEW, JT
0278 145 Zinc-halide hydrocracking process for distillate fuels from coal, Annual Technical Progress report, Feb. 1977 - Jan. 1978
0279 36 Zinc-halide hydrocracking process for distillate fuels from coal. Annual technical progress report for February 1978 - January 1979
0280 3 Continuous hydroliquefaction of sub-bituminous coal in molten zinc-chloride
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979

MASLAN, F
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MASLEN, PL
0279 221 Economic and technological assessment of diesel engines using coal-based fuels for electric power generation. Final Report

MASLENNIKOV, VM
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

MASLENNIKOVA, MG
1078 158 Thermal properties of a porous filler based on powdered Ekibastuz-coal-rock

MASOLOGITES, GP
0381 46 Process for removal of sulfur and ash from coal
0381 98 Process for removing sulfur from coal

MASON, J
0580 202 Proceedings of environmental effects of utilising more coal

MASON, R

0479 183 AFC chains: Problems and solutions

MASON, DM
0175 62 Control of agglomeration in coal hydrogasification
0178 68 Petrographic method for selective determination of a component (raw-coal) in a mixture of products from processing of coal
0180 43 Chemistry of ash agglomeration in the U-gas process

MASON, HB
0580 149 Environmental assessment field testing: Effects of NO//x controls applied to a tangential coal-fired utility boiler
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

MASON, IM
0480 103 Channel wave mapping of coal seams in the United-Kingdom
0480 149 The coal cutter as a seismic source in channel wave exploration
0481 156 Algebraic reconstruction of a two-dimensional velocity inhomogeneity in the High Hazles seam of Thoresby colliery

MASON, RE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MASON, RH
0379 31 Adaptable washing plants handle 7 seams
0380 108 Fines circuit increases capacity 67 percent
0477 2 WVU Ventilation Monitoring System boosts safety in underground mining
0477 3 Effective use of industrial engineering in the deep mine
0477 4 Fighting the Productivity slump with ACT
0477 34 Conventional mine produces 70P coarse coal for easy cleaning
0478 158 Greenwich gets record output from its low seam longwall
0478 185 Dragline makes economic sense at Kaneb mine
0478 230 Multiple stripping methods yield efficient coal recovery
0479 191 Ireland Mine: Bigger still with longwall
0480 49 Single-section mine produces 1000 tons per shift
0480 58 Full-face temporary roof supports ensure safety
0480 143 Why Armco is expanding in WV
0481 90 Haulage growth follows feeder-breakers
0481 137 Golden Oak's field goal: double production
0481 138 Central Ohio is big on coal
0481 140 Lambert coal beats sandstone parting
0877 5 Amherst boosts production 50 percent with continuous-haulage-system
1079 12 Coal analysis meets customers' needs

MASON, RZ
0177 134 Evaluation of the Lawrence Livermore Laboratory in-situ coal gasification concept
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0179 95 The chemical industry can benefit from underground coal gasification
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 65 An R&D program for UCG in bituminous coals
0182 80 An assessment of underground coal gasification in bituminous coals

MASON, TO
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MASON, WT
0579 107 Rapid procedure for assessment of surface mining impacts to aquatic life

MASON, WW
1181 18 Coal and coke utilization as it affects US trade relations (or the expanded role of coal in world trade)

MASSAQUOI, JG
0182 72 Discovery of a mechanism for oxygen transport during UCG
0182 78 Study of the flame extinction process for coal under UCG conditions

MASSEY, CT
0477 33 Retreat Mining

MASSEY, JJ
0178 300 Computer-aided analysis of coal gasification pilot-plant data bases

MASSEY, LG
0173 34 Coal gasification

MASSEY, MJ
0175 39 Influence of synthane gasifier conditions on effluent and product-gas production
0176 6 An approach to residuals management in coal conversion processing
0177 90 Coal processing technology, Volume 3
0177 204 Environmental monitoring in coal conversion
0177 225 Studies in support of recirculating bed reactors for the processing of coal. Annual Report, June 1976 - October 1977
0177 304 Decomposition characteristics of phenol under synthane gasifier conditions
0178 167 Analysis of waste-waters from high-Btu coal gasification plants
0178 220 A synopsis of C-MU technical contributions to the DOE Coal Gasification Environmental Program, Second Annual Report for July 1977 - July 1978
0178 230 Test plan for the environmental characterization of the bi-gas pilot-plant
0178 241 Preliminary investigation: time variability of the pretreater condensate composition at the hygas pilot-plant
0178 242 Exploratory analysis of variations in aqueous gasification effluent characteristics with time
0178 249 Gas-phase environmental data from second generation coal gasification processes
0178 250 Comments concerning environmental assessment activities at the bi-gas pilot-plant
0178 255 Environmental assessment in the ERDA coal gasification development program. First annual report. July 1976 - July 1977
0178 261 Characterization of effluent from the Bi-Gas pilot-plant
0178 274 Analysis of RA-21 effluent-data: GFERC slagging fixed-bed gasifier
0179 131 Operation of a sampling train for the analysis of environmental species in coal gasification gas-phase process streams
0179 282 Studies of phenolic compound decomposition under synthane gasifier conditions - final report
0577 16 Influence of time variability on the design of sampling strategies for coal gasification waste-waters
0578 68 Analysis of coal wastewater analytical methods: A case study of the hygas pilot-plant
0578 73 Effluent data analysis computer program
0578 89 Assessment of environmental characterization activities for the slagging fixed-bed gasification facility at the Grand-Forks energy research center
0579 16 Environmental assessment of the HYGAS process. Volume 1. Interim report on HYGAS environmental characterization: Data synthesis, analysis, and interpretation - Tests 37 through 64
1078 93 Characterization of effluents from the carbon-dioxide-acceptor coal gasification process

MASSIMILLA, L
0676 32 Fluidization technology, volume 2
0679 78 Operative variables of a pre-pilot plant for fluidized-bed combustion
0679 143 Calculation of carbon load and axial profiles of oxygen concentration in the bed of a fluidized combustor
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 130 Carbon fines production and elutriation from the bed of a fluidized coal combustor

MASSOTH, FE
0281 34 Characterization of coke on coal catalysts by an oxidation technique
0281 73 Studies on an aged H-coal catalyst

MASSOUD, MS
0779 40 Organic matter as indicator of the degree of metamorphism of the carboniferous rocks in the South-Wales coalfields

MASSZI, DG
0481 150 Method for recovering methane from coal seams

MASTERS, C
0179 188 The Fischer-Tropsch reaction

MASUDA, T
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MASUDA, Y
1078 20 Nuclear-spin-relaxation in cobalt-aluminum (coal) system

MASUDI, H
0181 243 Analysis of particles collected during in situ gasification of lignite

MATAY, S
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report

MATEER, RS
0480 74 Mine ventilation technology

MATHERS, WG
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MATHESON, A
0679 71 Combustion metamorphism in the Hat-Creek area, British-Columbia

MATHESON, MS
0280 215 Catalysis of the hydrogen evolution reaction by gold sols

MATHEW, D
0477 46 Partings: origins and their significance in coal mining
0777 16 Geology of the Beckley coal seam in the Eccles no. 5 mine near Eccles, West-Virginia

MATHEW, PJ
0979 0 Nuclear activation logging for aluminum in iron-ores and coal
1080 51 Determination of aluminum in bulk coal samples by neutron activation analysis

MATHIAS, PM
0281 250 Molecular thermodynamics of liquids containing supercritical compounds

MATHIEU, G
0381 107 Chemical comminution of Nova Scotia coals

MATHIEU, GI
0180 78 Coal Technology '80
0381 103 Wet and dry high-gradient magnetic cleaning of eastern coals

MATHISON, R
0173 24 Synthetic fuel research: a bibliography

MATHUR, MP
0680 144 Recent coal-oil mixture combustion tests at PETC

MATHUR, VK
0279 104 Catalytic liquefaction of coal
0281 337 Study of disposable catalysts in coal liquefaction
1181 26 Coal power, its promises and problems

MATIC, D
0164 3 Retorting of Yugoslav (Aleksinac) oil-shale by gas combustion retort
0164 9 Hydrorefining of diesel-fuel and crude-oil derived from Aleksinac oil-shales

MATIS, JR
0474 3 Fifth Symposium on Coal Mine Drainage Research

MATOUSEK, J
0677 153 Design status of the pressurized-fluidized-bed combustion component test and integration unit

MATSCHAK, H
0478 285 Processes and conditions of cohesionless loose rock deformations in brown-coal mining due to seepage flow

MATSEN, JM
0676 32 Fluidization technology, volume 2

MATSENKO, GP
0680 218 The dependence on their genesis of the tendency of Donbass coals to undergo spontaneous combustion

MATSON, RE
0780 26 The Anderson coal - a regional study

MATSUDA, K
0177 162 Radiation effects on Fischer-Tropsch syntheses

MATSUDA, M
0181 59 Conversion of caking coal into non-caking coal by treatment with sulphur and sulphur dioxide

MATSUI, H
0279 137 CHERRY-P process (Treatment of heavy ends)

MATSUMOTO, H
0178 143 The transient method applied to the methanation and Fischer-Tropsch reactions over a fused iron catalyst
0281 139 The catalytic effect of carbide formation during Fischer-Tropsch synthesis

MATSUNAGA, S
0281 161 Volcano-shaped relation between heats of oxide formation of metals and coal-liquefaction activities of liquid-metal catalysts

MATSUNAGA, T
0178 13 Hydrogasification of liquid ammonia-treated coals - comparison of several Japanese coals
0178 169 Gasification of coals treated with nonaqueous solvents. 3. Swelling behaviour of a single coal particle

MATSUO, T
0181 124 Coal gasification process by Sumitomo metals

MATSUOKA, H
0681 147 Operation of coke oven with coal preheated by precarbon system
1082 56 Carbonization of coals to produce anisotropic cokes. 1. Modifying activities of some additives in the co-carbonization of low-rank coals
1082 57 Carbonization of coals to produce anisotropic cokes. 2. Up-grading of modification activities of petroleum process residues and their correlation with structural parameters

MATSUURA, M
0281 161 Volcano-shaped relation between heats of oxide formation of metals and coal-liquefaction activities of liquid-metal catalysts

MATSYNA, VD
1081 175 Investigation and analysis of the forms and energies of the binding of moisture with coal

MATTA, GM
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MATTA, JE
0381 32 Assessing the methane hazard of gassy coals in storage silos
0478 14 Methane emissions from gassy coals in storage silos

MATTESON, SM
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MATTHES, G
0479 199 Spiral bunker system gives new capabilities to coal mines

MATTHEWS, CW
0171 0 Coal gasification by the IGT Hygas process
0172 5 Analysis of a Hygas Coal Gasification plant design
0673 24 A design basis for utility-gas from coal

MATTHEWS, RS
0281 223 Analysis of anilines in coal-derived based fractions by Fluorine-19 NMR of hexafluoroacetone adducts
1081 15 Analysis of coal and coal derived products
1082 17 Estimation of oxygen group concentrations in coal extracts by nuclear magnetic resonance spectrometry

MATTOX, D
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

MATTOX, CF
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 139 Groundwater pollutants from underground coal gasification
0179 104 Organic groundwater contaminants from UCG
0182 25 Characterization of condensates produced during underground coal gasification

MATTSON, L
0177 122 Evaluation of ERDA-sponsored coal-feed system development
0181 107 Thiocyanate bio-oxidation kinetics
0581 77 Bio-oxidation of thiocyanates typical of coal conversion effluents - Final report

MATTY, L
0181 181 The interrelationship of graphite intercalation compounds, ions of aromatic hydrocarbons, and coal conversion. II

MATULEVICIUS, ES
0679 151 Hot corrosion/erosion testing of materials for application to advanced power conversion systems using coal-derived fuels - Task II - Fluidized-bed combustion

MATVEEV, AK
0976 0 Coal Exploration

MATVEEVA, VI
0580 101 The development and adoption of a pneumovibratory dust recovery device

MATYAS, R
0180 255 The CS/R advanced SNG hydrogasification process

MATYUSHCHENKO, GN
0179 307 A study of the processes of the thermal and gas-thermal refining of imperfect carbon phases

MAUER, F
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

MAUER, FA
0179 212 X-Ray powder diffraction measurements in reactive atmospheres at 1000-degrees-Celsius and 7-MPa (1000-PSIG)
0181 257 Chemical degradation of castable refractories in coal gasification process environments

MAUL, E
1082 81 Coal analysis by means of neutron-gamma activation analysis and x-ray techniques

MAUNEY, T
0581 46 Nonphotochemical decomposition of fluorene vapor-adsorbed on coal fly ash
0682 8 Analysis of fly ash produced from combustion of refuse-derived fuel and coal mixtures

MAUNG, T
1077 86 Coal stream composition analysis for process control using prompt neutron activation analysis
1080 153 Nuclear assay of coal - Volume 1: Coal composition by prompt neutron activation analysis - Basic Experiments

MAUPIN, PH
0278 19 Thermal-cleavage of chemical bonds in selected coal-related structures
1077 45 Isotopic studies of thermally induced reactions of coal and coal-like structures

MAURER, H
0878 24 StBV activities related to hydromining and hydrotransport
0878 27 The hydrotransport test facility of Bergbau-Forschung

MAURER, RE
0177 201 Instrumentation of a Wellman-Galusha gasifier operating on anthracite for system evaluation and control
0178 335 Operation and performance of a Wellman-Galusha gas producer
0181 167 Industrial fixed-bed coal gasification: An economic alternative to deregulated natural gas
0181 223 Technology and use of lignite, Vol. 1 and 2
0681 189 Coal Technology '81, Vol. 5

MAURI, R
0681 47 The processing of solid particles in fluidized beds

MAUST, EE
0376 6 District heating using coal
0680 139 Method for enhancing the utilization of powdered coal

MAWER, DJ
0180 78 Coal Technology '80

MAXWELL, E
0282 39 Magnetic separation and thermo-magneto-chemical properties of coal liquefaction mineral particulates
0378 48 Magnetite recovery in coal washing by high gradient magnetic separation
0378 59 Improved magnetite recovery in coal cleaning by HGMS
0378 67 High-gradient-magnetic-separation in coal desulfurization

MAXWELL, J
0578 24 Environmental impact of mining in Canada

MAXWELL, CD
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MAY, ME
0280 279 Microbial deterioration of hydocarbon fuels from oil shale, coal and petroleum. II. Growth and inhibition of bacteria and fungi

MAY, MP
0177 27 Suspension gasifier offers economies of scale
0681 189 Coal Technology '81, Vol. 5

MAY, TH
0677 56 Technology and use of lignite

MAY, VB
0576 18 Coal preparation for conversion processes

MAY, WE
1081 97 Selective quenchofluorometric detection of fluoranthenic polycyclic aromatic hydrocarbons in high-performance liquid chromatography

MAYBEE, JS
1178 13 Short term coal demand modelling

MAYER, GG
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

MAYER, RL
0181 239 Temperature-time-reaction medium controlled hydropyrolysis: a batch reactor study

MAYERCHECK, WD
0478 181 Peristaltic pumping: A new approach to pumping solids in slurry form, Report of investigations
0479 42 Breaking bottlenecks at the face with continuous haulage

MAYFIELD, M
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

MAYFIELD, MJ
0681 96 Tennessee valley authority's atmospheric fluidized bed combustion projects

MAYLOTTE, DH
1081 103 X-ray absorption spectroscopic investigation of trace vanadium sites in coal

MAYNE, GF
1080 57 An investigation into the British standard high temperature method for the determination of chlorine in coal

MAYO, FR
0278 92 Comparison of fractions of pyridine extract and solvent-refined-coal from Illinois No. 6 coal
0279 87 Mild oxidations of coal fractions
0280 292 Low temperature cleavage reactions of Illinois No. 6 coal
1077 41 Chemistry of coal liquefaction
1079 75 Mild oxidations of coal models

MAYS, MA
0880 39 Coal de-icing program at ARCO's Black Thunder mine

MAYSTER, S
0379 38 Conversion of industrial plants to use coal as fuel

MAZALOV, YD
1079 208 Influence of thermal effects on the results of measurements of the electrical-resistance of anthracites by the four-probe method
1080 95 Electrical resistance of heat-treated anthracites and its anisotropy

MAZANDARANY, FN
0180 251 Development of molten carbonate fuel cells for power generation

MAZINA, OI
0179 310 Thermal degradation of natural polymers in the presence of zinc chloride
0479 177 Production and study of adsorbents from brown-coal
1079 189 An investigation of the thermal destruction of cottongrass peat in the presence of orthophosphoric acid
1081 126 The question of increasing the strength of porous carbonaceous materials

MAZUMDAR, BK
0976 2 A methodology of systematic quality assessment of coal seam under exploration
1081 21 Hydrogenolysis and the isolation of structural units of coal

MAZURAK, RE
0479 134 Geological approach for predicting unstable roof and floor conditions in advance of mining
0779 46 Site selection for coal mine shafts using geological investigation

MAZURKIEWICZ, M
0478 20 Testing of the prototype hydrominer in a surface coal seam

MAZZA, MH
0677 94 Chemical transformations of the minerals in eastern bituminous coals under simulated pulverized coal-firing conditions
0678 85 Mineral characterization of fluidized-bed combustion aerosol ash - Montana rosebud sub-bituminous coal
1077 89 X-ray diffraction examination of coal combustion products related to boiler tube fouling and slagging

MAZZOCCO, NJ
0274 3 Synthoil process for converting coal to nonpolluting fuel-oil
0277 55 Experience in feeding coal into a liquefaction process development unit
0278 27 Aqueous effluents from the synthoil process.
0279 127 Coal liquefaction succeeds without added catalyst
0281 322 Study of catalytic effects of mineral matter level on coal reactivity

MAZZOLA, CA
0580 177 Atmospheric impacts of natural-draft cooling tower emissions: a case history

MCADAMS, RM
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MCALEVY, RF
0174 10 Hydrogen as a fuel, Semi-annual Technical Report

MCALPINE, DB
0277 81 Studies on the separation of coal extract from solid residue in liquefied coal

MCARTHUR, JG
0477 90 Industrial minerals in Newfoundland and Labrador: Export potential and internal industrial growth

MCBEATH, BC
0278 134 Comparison of coal liquefaction processes, Final Report on Task 006
0279 28 Final report on task 010: Guidelines for economic evaluation of coal conversion processes

MCBETH, RL
0279 196 Characterization of hydrolytically solubilized coal
1079 104 Lignin-like polymers in coals
1080 118 Characterization of heteroaromatics in coals and coal products
1081 26 Investigation of aqueous sodium dichromate oxidation for coal structural studies
1081 27 Is kerogen-like material present in coal? 1. Buffer-controlled permanganate oxidation of coal
1081 28 Is kerogen-like material present in coal? 2. Chromic acid oxidation of coal and kerogen
1081 171 Structural characterization of coal: Lignin-like polymers in coals

MCBRIDE, BJ
1076 29 Computer program for calculation of complex chemical equilibrium compositions, rocket performance, incident and reflected shocks, and Chapman - Jouguet Detonations (Report only)

MCBRIDE, JP
0577 53 Radiological impact of airborne effluents of coal-fired and nuclear power plants

MCBRIDE, JR
0177 54 Low-Btu gasification: An annotated bibliography of the technology
0276 59 Coal liquefaction: Technology, impacts and technical suitability for Montana

MCBRIDE, MF
0881 47 Coal Technology '81, Vol. 1

MCCABE, DE
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979,. Gaithersburg, Maryland
0180 196 Design properties of steels for coal conversion vessels report on long-term testing
0280 85 Erosion of weldments

MCCABE, JT
0177 97 Centrifuges for coal conversion and related processes, Phase I, Feasibility Study
0177 169 Review and evaluation of failures, maintenance, and operability data for carbon-dioxide-acceptor plant mechanical equipment

MCCABE, WM

0779 13 Acoustic emission in coal: A laboratory study

MCCAIN, JD
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
0582 0 Evaluation of a cyclone dust collector for high-temperature, high-pressure particulate control

MCCALLISTER, RA
0177 87 Coal gasification combined-cycle pilot plant system analysis
0178 1 Scaling laws and the differential equations of an entrained flow coal gasifier

MCCANDLESS, FP
0277 22 Catalytic hydrogenation of coal-derived liquids
0280 256 Catalytic hydrogenation of coal-derived liquids
0281 28 Coal hydrogenation and hydrocracking using a metal chloride-gaseous HCl catalyst system

MCCANDLISH, K
0478 144 Roof weakness: Fossilization and (cyclic) regenerative hydrated sulfates
1078 14 Hydrated sulfates in the Sydney coalfield, Cape-Breton, Nova-Scotia

MCCANN, CR
0677 23 Combustion of coal-oil slurry in a 100-HP Firetube-Boiler

MCCANN, RL
0180 254 Large scale dynamic process simulation experience: effect of Jacobian structure on integrator performance

MCCARRON, R
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

MCCARRON, RL
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0677 167 The investigation of corrosion performance of boiler and turbine alloys in fluidized-bed combustion systems
0680 93 Materials problems in fluidized-bed combustion systems - Review of the information on gas turbine materials in coal combustion environments
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MCCART, GD
0476 21 Fourth Symposium on surface-mining and reclamation

MCCARTHY, DJ
0181 31 Flash pyrolysis of Australian coals: effects of pre-oxidation and of oxygen in the inlet gases on formation of agglomerated material
0181 77 Changes in oxyreactivity of carbons due to heat treatment and prehydrogenation
0680 122 Oxidative rapid pyrolysis of coal in a dilute phase transport reactor
0682 3 Some effects of overheating and carbon burn-off on the performance of fluidized-bed combustors
1080 38 Effects of pre-extracting a Liddell coal on its agglomeration properties during flash pyrolysis
1080 84 Design and characterization of an apparatus for agglomeration testing during flash pyrolysis in entrained flow reactors

MCCARTHY, JJ
1081 202 Interactive software for automated particulate analysis

MCCARTHY, JR
0380 159 Apparatus for separating selected particulate materials from a mixture of solids and liquids

MCCARTHY, RE
0577 51 Erosion and sediment control for coal surface mine areas

MCCARTHY, WN
0576 8 Energy and the environment. Proceedings of the fourth national conference
0576 16 The need for coal cleaning

MCCARTY, JG
0177 149 Sulfur poisoning of catalysts: A study of activity decay in methanol synthesis and Fischer-Tropsch catalysis
0180 305 Shift conversion and methanation in coal gasification: bench-scale evaluation of a sulfur-resistant catalyst - Final report

MCCASKILL, KB
0277 119 Catalytic Hydrotreating Process
0278 77 Concept and use of hydrogen permeable catalysts
0279 1 Deactivation of hydrotreating catalysts by coal-derived organometallics

MCCASLIN, JC
1180 17 New-Mexico energy outlook remains bright

MCCAULEY, IR
0478 201 Coal shooting at Callide

MCCAULLEY, DG
0477 113 Coal mine electricians training program

MCCAWLEY, M
0480 212 An industrial hygiene characterization of exposures to diesel emissions in an underground coal mine

MCCHESNEY, HR
0678 73 Coal-fired process heaters?

MCCLAIN, PM
0477 92 Fifth Symposium on Surface-mining and reclamation

MCCLANAHAN, E
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

MCCLANATHAN, LC
0379 126 Preservation of reactor test unit and desulfurization of gob pile samples
0381 119 Gravimelt process for near complete chemical removal

MCCLAY, WJ
0681 75 Fluidized bed combustion of high sulfur coal proves successful at Georgetown University

MCCLELLAN, BE
0580 52 Development of an inductively coupled plasma-optical emission system for coal analysis

MCCLERNON, JR
0176 30 Upgrading synthetic-oils boiling above gasoline boiling material

MCCLINTOCK, N
0179 252 The ICGG approach - what is it

MCCLINTOCK, NA
0180 78 Coal Technology '80

MCCLOY, WJ
0681 169 Fluidized bed combustion at Georgetown University

MCCLUNG, JD
0179 263 Pricetown I - in-situ coal conversion field test for bituminous coals
0376 5 Desulfurization technology in coal preparation and coal utilization

MCCLUNG, PO
0376 5 Desulfurization technology in coal preparation and coal utilization

MCCLUNG, RW
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0278 163 Assessment of materials technology of pressure vessels and piping for coal conversion systems

MCCOLLUM, L
0681 198 The development of a microprocessor-based system to analyze and control fossil fuel combustion

MCCONAGHY, DJ
0175 23 The relative economics of recovering and upgrading Alberta's hydrocarbon Resources
0277 10 The comparative economics of current coal liquefaction processes in an Alberta context

MCCONE, AI
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

MCCONNELL, JF
0576 25 Homer city coal cleaning demonstration

MCCONNELL, JR
0178 272 Coal processing technology, Volume IV

MCCORD, J
0480 116 Potential for coal-bed methane production from the Greater Green River Coal Region

MCCORMICK, J
1177 44 Symposium on coal dilemma: How and where to use it

MCCOWN, PJ
0182 64 Underground coal gasification (UCG) - gas to methanol and MTG gasoline an economic and sensitivity study

MCCOY, DC
0173 10 Operations: Carbon-dioxide-acceptor process gasification pilot-plant. Final report, Volume 6, Book 1 of 2, January 1972 - June 1973
0173 49 Operations: CO//2 acceptor process gasification pilot plant. Final report, Volume 6, Book 2 of 2, Appendices, January 1972 - June 1973
0174 21 Operations: Carbon-dioxide-acceptor process gasification pilot-plant, Final Report, Volume 7, July 1973 - July 1974

MCCOY, JD
0279 64 SRC corrosion can be solved

MCCRACKEN, RJ
0478 163 Electrical and mechanical system improvement study (continuous miners), Final technical report

MCCRAY, RL
0179 252 The ICGG approach - what is it
0180 78 Coal Technology '80

MCCREADY, RG
0380 20 Removal of pyrite from coal by conditioning with thiobacillus ferrooxidans followed by oil agglomeration

MCCREARY, JR
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MCCREERY, JH
0379 117 Environmental assessment of coal cleaning processes. Technology overview
0381 94 Use of coal cleaning for compliance with sulfur dioxide emission regulations

MCCREIGHT, LR
0378 49 Feasibility study of coal-slag based glasses for hot-gas clean-up. Final report of Phase 1, April 1977 - April 1978
0580 21 Feasibility study of coal slag based glasses for hot gas clean up, final report of phase 2
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

MCCUE, JC
0180 193 Coal gasification/gas cleanup test facility: Volume 1. Description and Operation

MCCULLOCH, A
1049 0 Graphical studies of the properties of Alberta-coals
1049 1 Low temperature carbonization of Alberta sub-bituminous coal

MCCULLOCH, CM
0175 55 Measuring the methane content of bituminous coalbeds

MCCULLOUGH, GR
0182 37 Shell coal gasification process

MCCURDY, R
0177 256 Proceedings of the third annual underground coal conversion symposium

MCCURDY, WA
0674 3 Developing a fluidized-bed boiler

MCCURLEY, WR
0579 109 Source Assessment: Dry bottom industrial boilers firing pulverized bituminous coal
0680 167 Source assessment: dry bottom utility boilers firing pulverized bituminous coal

MCDANIEL, C
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

MCDANIEL, MJ
0678 88 Testing of a pulsed L-valve feeder for use in fluidized-bed combustion and sorbent regeneration units

MCDERMOTT, JJ
0476 21 Fourth Symposium on surface-mining and reclamation

MCDONALD, M
0181 227 A comparison of coal and gas as feedstocks for ammonia and methanol production in Alberta

MCDONALD, DG
0474 3 Fifth Symposium on Coal Mine Drainage Research
0477 94 Seventh Symposium on Coal Mine Drainage Research
0478 223 Last decade and onwards

MCDONALD, JD
0479 260 Reclamation of lands disturbed by coal mining in British Columbia

MCDONALD, JP
0180 288 Control strategy for gasification combined-cycle power plants

MCDONALD, JR
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

MCDONALD, RD
1181 11 Coal conversion in Alberta

MCDONALD, RS
1082 44 Review: Infrared Spectrometry

MCDOWELL, WJ
0381 31 Determination of extraction equilibria for several metals in the development of a process designed to recover aluminium and other metals from coal combustion ash
0678 16 New processes for the recovery of resource materials from coal combustion wastes

MCELMURRY, B
0178 117 Economic studies of coal gasification combined-cycle systems for electric-power generation
0178 412 Economics of fuel gas from coal - an update including the British Gas Corporation's slagging gasifier. Final Report - May 1978

MCELROY, MW
0580 198 Use of PAH tracers during sampling of coal fired boilers
0682 14 Size distribution of fine particles from coal combustion

MCELROY, RO
0281 340 Direct liquefaction behaviour of B.C. coals

MCELVAIN, RE
0878 8 Hydraulic hoisting and long distance pumping of coal

MCEWAN, PF
0882 39 ETSI coal evaluation plant

MCFADDEN, WH
0278 70 The role of HPLC and LC-MS in the separation and characterization of coal liquefaction products

MCFARLANE, D
0481 110 Early coal mining in Alberta

MCFEE, WW
0480 181 Properties and plant growth potential of mineland overburden
0481 161 Characteristics of coal mine overburden important to plant growth

MCFETERS, GA
0579 29 Impact of western coal mining. II. Microbiological studies
0579 30 Impact of Western coal mining. I. Chemical Investigations of a surface coal mine sedimentation pond
0579 31 Environmental Effects of Western Coal Surface Mining: Part IV - Chemical and microbiological investigations of a surface coal mine settling pond
0580 105 Occurence and activity of iron and sulfur-oxidizing microorganisms in alkaline coal strip mine spoils. Final report

MCGARVEY, RJ
0173 12 Symposium papers, Clean fuels from coal

MCGAULEY, PJ
0680 194 An engineering study on the use of regenerative calcium silicates sorbent for AFB power generation from high sulfur coal

MCGEE, JP
0172 17 The Synthane process - Research results and prototype plant design
0177 169 Review and evaluation of failures, maintenance, and operability data for carbon-dioxide-acceptor plant mechanical equipment

MCGEE, TD
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

MCGEORGE, A
0177 256 Proceedings of the third annual underground coal conversion symposium
1176 0 Economic feasibility study, fuel grade methanol from coal for office of commercialization of the Energy Research and Development Administration

MCGILLIVRAY, AH
1182 2 Western Canadian export thermal coal demand: balanced growth

MCGINLEY, AN
0580 64 Arsenic and selenium in Texas lignite

MCGINNIES, WJ
0480 210 Effects of topsoil thickness and nitrogen fertilizer on the revegetation of coal mine spoils

MCGINNIS, EL
0277 97 Separation of solids from coal liquids using an additive
0278 58 Metallo compounds in coal liquid filtrates
0278 162 Separating solids from coal liquids
0278 171 Method for separating solids from coal liquids
0380 158 Filtration of a coal liquid slurry using an alkylmethacrylate copolymer

MCGOVERN, JJ
0177 225 Studies in support of recirculating bed reactors for the processing of coal. Annual Report, June 1976 - October 1977

MCGOVERN, SJ
0176 30 Upgrading synthetic-oils boiling above gasoline boiling material

MCGOWAN, JG
0177 254 Dynamic flow model for low-Btu gasification of coal for electric-power generation. Final report R & D Task 9

(Phase 1)
0681 218 An aerodynamic study of an operating tangential fired furnace

MCGOWAN, RF
0278 152 Design and construction of the PDU for zinc-halide hydrocracking of coal. Final Report for Task 4 and 5

MCGOWIN, CR
0181 223 Technology and use of lignite, Vol. 1 and 2
0380 14 Effects of coal cleaning on power generation economics
0380 146 Combined coal cleaning and FGD for SO//2 emissions control
0381 25 Will NSPS end coal washing?
0678 206 Development of efficient and reliable coal-fired power-plants for the future
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 226 Cofiring coal and refuse-derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation

MCGRATH, JJ
1158 0 Submission of National Coal Association, Washington, D.C., to the Canadian Royal Commission on Energy

MCGRAW, RW
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky

MCGREAL, JE
0181 252 Desulfurization of hot coal-derived gas by calcined dolomite

MCGUIRE, JR
0577 86 There's more to reclamation than planting trees

MCGURL, GV
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

MCHALE, ET
0681 199 Preparation and burning of coal/water slurry
0881 47 Coal Technology '81, Vol. 1

MCHUGH, KP
1181 45 Australia's energy policy

MCILROY, JB
1059 5 Relationship of coal-ash viscosity to chemical composition

MCILROY, RA
0679 99 Fluidized-bed combustion technology for industrial boiler of the future - A progress report

MCILVRIED, HG
0278 22 Kinetics of catalytic liquefaction of Big-Horn-coal

MCINTOSH, GE
0479 184 Simulation of the effects of surface mining on groundwater in the Powder-River Basin

MCINTOSH, MJ
0178 375 Experimental and process design study of a high rate entrained coal gasification process, final report, January 1974 - November, 1978

MCINTYRE, A

0380 23 Interrelationship between bond and hardgrove grindabilities

MCINTYRE, H
0278 100 Ottawa force-feeds coal research

MCIVER, AE
0177 225 Studies in support of recirculating bed reactors for the processing of coal. Annual Report, June 1976 - October 1977

MCKAY, JF
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

MCKAY, WJ
0178 355 Coal gasification and occupational health

MCKEE, D
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

MCKEE, CR
0178 316 Bibliography of subsidence and related topics for in-situ coal gasification
0180 159 The push-pull test a method of evaluating formation adsorption parameters for predicting the environmental effects on in-situ coal gasification and uranium recovery
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0477 10 Permeability from Single and Multiple Detonations in Boreholes

MCKEE, DW
0180 8 Catalytic effects of alkaline earth carbonates in the carbon carbon-dioxide reaction
0181 210 The catalyzed graphite-water vapor reaction - isotopic studies using barium carbonate (carbon-13)

MCKEEN, JA
0178 272 Coal processing technology, Volume IV
0277 81 Studies on the separation of coal extract from solid residue in liquefied coal
0379 89 Filtration of coal derived liquids - dissertation
1079 118 Behavior of liquefied coal in filtration

MCKELL, CM
0579 101 Plant establishment research on disturbed arid sites in the west
0580 104 Vegetative rehabilitation of arid land disturbed in the development of oil shale and coal

MCKELVEY, VE
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

MCKENNA, E
0480 113 The effects of a rider coal and splay deposits on roof conditions in the Stansbury Mine

MCKENNA, LL
0780 17 Wave-dominated deltas: an important economic depositional model for upper cretaceous of southwestern Wyoming

MCKENZIE, AR
1059 2 A laboratory study of the binderless briquetting of Western Canadian coals

MCKENZIE, CT
0780 35 Quality and occurence of coal in southern Saskatchewan, Canada, Volume I, Introduction to data acquisition and to associated computer processable files

MCKENZIE, EC
0678 48 Burning coal in fluidized-beds

MCKENZIE, JC
0478 242 Continuous haulage at Amherst coal
0479 77 Five years of worker incentives at Amherst coal

MCKINLEY, MD
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 118 Reaction of coke particles with air: Effect of diffusion on reaction rate

MCKINLEY, RJ
0380 112 Induced fluorescent sorting technique holds promise

MCKINSTRY, WE
0276 93 Method for the determination of benzene insolubles, asphaltenes, and oils in coal-derived liquids
1079 94 Solid and gaseous fuels

MCKITTRICK, DP
0180 78 Coal Technology '80

MCLAREN, RJ
0474 5 State of the art of subsidence control
0579 117 Fly ash structural fill handbook

MCLAUGHLIN, L
0181 177 Evaluation of treatment technologies for water reuse in coal gasification

MCLAUGHLIN, MH
0678 112 Flow regimes and void fraction distribution in gas fluidization of large particles in beds without tube banks
0678 113 Large particle fluidization and heat-transfer at high pressures

MCLEAN, DD
0181 56 Reactor designs for char gasification kinetics

MCLEAN, JB
0277 83 Coal liquefaction studies using phosphoric-acid at moderate temperatures and pressures

MCLEAN, WJ
0681 15 Direct observations of devolatilizing pulverized coal particles in a combustion environment

MCLINTOCK, JS
0478 215 Pneumoconiosis and other chest diseases

MCLOHON, B
0580 58 Laboratory support

MCMAHON, CJ
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

MCMAHON, MA
0275 25 Cellular solvent refined coal and methods for making same
0277 127 Cellular solvent-refined-coal
0681 36 Solid fuel composition

MCMAIN, AT
0173 12 Symposium papers, Clean fuels from coal

MCMATH, HG
0174 12 Coal processing technology

MCMICHAEL, FC
0574 9 Some implications of environmental regulatory activities on coal conversion processes
0578 53 Cross media environmental impacts of air-pollution regulations for a coal-fired power-plant

MCMICHAEL, WJ
0179 256 Mathematical modeling of synthane gasifier
0180 278 Hydrogenolysis of benzene and alkylated benzenes over coal chars
0577 91 Synthane gasifier effluent streams

MCMILLAN, BG
1078 86 Coal minerals bibliography, Final Report, June 1977 - July 1978

MCMILLEN, DF
0281 83 Coal structure cleavage mechanisms: Scission of methylene and ether linkages to hydroxylated rings

MCMULLEN, MK
0473 4 Coking coal in Canada
0477 25 Coal and coke

MCNAIR, HM
1079 130 Size exclusion chromatography for the separation of whole coal liquids

MCNALLAN, MJ
0581 54 The formation of inorganic particulates by homogeneous nucleation in gases produced by the combustion of coal

MCNALLY, RN
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MCNAY, LM
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

MCNEAL, WH
0478 71 1978 Keystone Coal Industry Manual

MCNEESE, JA
0176 76 Utilization of brackish water in coal gasification

MCNEESE, LE
0178 391 Fossil energy program quarterly progress report for the period ending December 31, 1978
0178 392 Fossil energy program quarterly progress report for the period ending June 30, 1978
0180 41 Fossil Energy Program Quarterly Progress Report for the period ending December 31, 1979
0180 42 Fossil energy program quarterly progress report for the period ending March 31, 1980

MCNEIL, D
0274 5 Application of COED process coal-derived liquids

MCNEIL, RI
0282 157 Hydrogen/deuterium transfer in coal liquefaction

MCNICOL, JB
0477 95 Third Symposium on Underground Mining

MCNULTY, JE
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

MCNULTY, JG
0280 283 Process for recovering phenols from a hydrocarbon mixture containing the same

MCNULTY, KJ
0378 77 Research on cross-flow filtration for solids removal from coal syncrudes - final report

MCOMBER, DB
1075 2 Conversion of complex aromatic structures to alkylbenzenes

MCQUADE, KJ
0280 182 Polymer-bound trinuclear metal cluster catalysts

MCQUAID, J
0480 45 Systematic safety assessment in the mining industry

MCRANIE, RD
0278 155 Full-scale utility boiler test with solvent-refined-coal (SRC) interim report
0679 152 Full-scale utility boiler test with solvent refined coal (src)-final report

MCROBBIE, HW
0177 50 Methanation of overshifted-feed

MCSHANE, MT
0279 209 Preliminary engineering evaluation of promising coal liquefaction concepts. Final report

MCSPARRAN, DK
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MCTERNAN, EM
0182 79 Permitting requirements and procedures in selected states with UCG potential

MCVRIDE, GE
0979 1 Saving money with coal geophysics

MCWHORTER, DB
0474 3 Fifth Symposium on Coal Mine Drainage Research

MCWILLIAMS, B
0781 15 Breakage parameters of some materials in smooth roll crushers

MCWILLIAMS, JP
0281 188 Catalyzing the energy balance of cat cracking

MCWILLIAMS, PC
0481 162 Mine waste disposal technology

MEAD, D

0177 130 Basic studies of coal pyrolysis and hydrogasification, Quarterly Progress Report for the period Jan. 1977 - March 1977
0178 137 Basic studies of coal pyrolysis and hydrogasification, Quarterly Progress Report for the period Oct. 1977 - Dec. 1977

MEAD, J
0477 94 Seventh Symposium on Coal Mine Drainage Research

MEAD, SW
0175 75 LLL in-situ coal gasification program, Quarterly Report, Jan. - March 1975
0177 105 Ground-water quality effects of an underground coal gasification experiment
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 307 LLL environmental studies of in-situ coal gasification annual report fiscal year 1977
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 26 Ground-water quality near an underground coal gasification experiment
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 60 UCG environmental research - summary and suggested projections

MEADER, DE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MEAGHER, JF
0578 58 Oxidation of sulfur-dioxide to sulfate aerosols in the plume of a coal-fired power-plant
0681 68 Atmospheric oxidation of flue gases from coal-fired power plants - a comparison between conventional and scrubbed plumes
0682 13 Model calculations of the chemical processes occurring in the plume of a coal-fired power plant

MEANS, JC
0580 102 Sorption properties of sediments and energy-related pollutants

MEANS, RC
1178 17 National energy policy: A continuing assessment

MEDALIA, MI
0281 33 Coal-oil mixtures. 3. Stabilization of powders vs. colloids: Coal/oil vs carbon-black/oil systems

MEDEIROS, D
0279 8 Surface area variations of coal during solvent-extraction

MEDIN, SA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MEDLIN, JH
1082 80 Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia

MEDRALA, A
0581 88 Method for treatment of industrial waste from high-temperature coal gasification

MEDVE, RJ
0476 21 Fourth Symposium on surface-mining and reclamation

MEDVILLE, DM
0479 251 An economic assessment of labor supply and demand in the coal mining industry through 2000

MEEK, J
0180 256 The Hygas process to produce pipeline gas from coal

MEEK, RL
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

MEGLEN, RR
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

MEHESCH, H
0277 77 Coal hydrogenation without solvent. Fractionation and molecular weight determination

MEHROTRA, AK
0379 60 Metal recovery from coal-ash via chlorination - a thermodynamic study
0682 4 High-temperature chlorination of coal ash in a fluidized bed. 1. Recovery of aluminum
0682 5 High-temperature chlorination of coal ash in a fluidized bed. 2. Recovery of iron, silicon, and titanium

MEHROTRA, PK
0280 84 Erosion of materials in coal conversion plants

MEHROTRA, VP
0380 39 Oil agglomeration offers technical and economical advantages

MEHTA, S
0680 24 Direct observation of the mesophase in coal

MEHTA, AJ
0178 385 Sulfur fixation during coal gasification

MEHTA, AK
0176 101 Mathematical modeling of chemical processes for low-Btu gasification of coal for electric-power generation. Final report. February 1975 - August 1976
0282 167 Effect of liquefaction processing conditions on combustion characteristics of solvent refined coal - Interim Report

MEHTA, AP
0382 33 Coal desulfurization by leaching involving acidophilic and thermophilic microorganisms

MEHTA, DC
0378 83 Catalyst aging tests and the role of catalyst wetting on hydrodesulfurization of a coal derived liquid - dissertation

MEI, JS
0677 36 Fluidized-bed combustion of anthracite refuse
0678 17 Fluidized-bed combustion of low quality fuels
0678 173 Fluidized-bed combustion test of low-quality fuels: Texas lignite and lignite refuse
0679 25 Fluidized-bed combustion of high sulfur coals
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MEIER, AK
0578 26 Probabilistic methodology for estimating air pollution health effects from coal-fired power plants

MEIER, GH
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg,

Maryland
0679 93 Hot corrosion of Ni-base turbine alloys in atmospheres in coal-conversion systems

MEIKLE, PG
0475 9 First Symposium on Underground Mining, Volume I
0476 23 Second Symposium on Underground Mining

MEISEL, D
0280 215 Catalysis of the hydrogen evolution reaction by gold sols

MEISSEROVA, OK
0679 121 The structural and chemical transformations of brown coal in three-stage rapid heating

MEISSNER, HP
0174 64 Apparatus for determining high pressure coal-hydrogen reaction kinetics under rapid heating conditions
0176 125 Rapid devolatilization and hydrogasification of bituminous coal
0675 17 Rapid devolatilization of pulverized coal

MEL'NICHUK, AY
1079 162 Production of coke from charges with the participation of noncaking and weakly caking coals
1080 117 The change in the properties of concentrates from Karaganda coals of different types according to separation densities
1080 198 Properties of cokes from mixtures of coals of the Donets and Karaganda Basins

MEL'NIKOV, NV
0477 156 The role of water in the blasting process

MELCHER, J
0677 6 MHD: Tomorrow's coal technology

MELDER, LI
1080 149 Determination of the amount of water-soluble compounds in tars from the thermal treatment of solid fuels

MELDGIN, MJ
0579 7 Study of long range air pollution problems related to coal development in the Northern-Great-Plains

MELDRUM, GC
0681 36 Solid fuel composition

MELDRUM, GH
0477 25 Coal and coke

MELIN, GA
0282 100 Exxon donor solvent plant: Design update

MELING, JL
0582 5 Cost for control of SO//2 emissions

MELINIKOVA, AN
0163 1 Underground processing of fuels

MELKSHAM, MH
0677 103 An analysis of thermal fatigue crack growth in 2.25% Cr 1% Mo steel superheater tubes caused by on load water deslagging

MELLON, GB
1175 0 27th Canadian conference on coal

MELLOR, GH
0379 104 Using Humphreys spirals for recovery of minus 4 mesh coal

MELNYK, N
1064 0 The dry oxidation of sub-bituminous coal

MELQUIST, VH
0174 12 Coal processing technology

MELSON, GA
0279 222 New potentially useful catalysts for the indirect liquefaction of coal
0280 356 Supported metal carbonyls: new catalysts for the indirect liquefaction of coal

MELTON, RA
0778 23 Study of geological factors effecting roof conditions in the pochontas 3 coal seam, southern West-Virginia, part i and 2

MEMBREY, WB
0481 147 Fundamentals of dust suppression during coal handling

MEMMOTT, VJ
0178 10 Cold flow mixing rate data for pulverized coal reactors

MEN'SHENIN, VM
1080 171 Physicochemical properties of lean coal as a carbonaceous reducing agent

MEN'SHIKOVA, SD
0379 76 A study of the influence of the high-temperature treatment of gas coal on the properties of the solid residue obtained

MEN'SHUTIN, VP
0181 152 Influence of the rate of rise in temperature on the composition and properties of carbonized products

MENDELSOHN, R
0580 32 An economic analysis of air pollution from coal-fired power-plants

MENDIS, MS
0479 251 An economic assessment of labor supply and demand in the coal mining industry through 2000

MENEZES, JJ
0177 9 Engineering Properties of Texas Lignite and Associated Rocks in Relation to the Stability of an in-situ Gasification Chamber
0177 58 Roof stability and subsidence in In-situ gasification of coal

MENG, S
0278 225 Characterization of solvent refined coal by high pressure liquid chromatography and other analytical techniques

MENGEL, DC
0477 122 The role of the geological survey of Queensland in exploratory coal drilling

MENGON, AC
0181 249 Start-up, operation and shutdown of a Wellman-Galusha gasifier

MENSER, HA
0480 185 Long-term impacts of surface mining on streamflow

MENSINGER, M
0176 120 Fate of trace and minor constituents of coal during gasification
0576 36 Initial environmental test plan for source assessment of coal gasification

MENSTER, M
0173 35 Devolatilization of coal by rapid heating

MENTSER, M
0277 142 Low-temperature pyrolysis of synthoil centrifuged solids
0577 90 Chemical characterization of diesel exhaust particulates

MENTZ, JW
0475 5 Up-dip versus down-dip mining: An evaluation

MENZE, VH
0181 223 Technology and use of lignite, Vol. 1 and 2

MENZIES, WR
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MERDINGER, M
0280 325 H-coal processing of Kentucky No. 11 coal and 1980 status of H-coal

MERER, RD
0175 22 Combined-Cycle technology
0178 88 Coal gasification for industrial use and power

MERIAUDEAU, P
0282 191 Changes in the surface structure and composition of an iron catalyst of reduced or unreduced Fe//2O//3 during the reaction of carbon-monoxide and hydrogen

MERINGOLO, V
0681 124 Stop tube corrosion and wear in coal-fired power boilers

MERKLIN, JF
0680 128 Shock tube techniques in the study of pulverized coal ignition and burnout
0681 45 The influence of oxygen and total pressure on the surface oxidation rate of bituminous coal
1082 33 Formation and destruction of H//2S in the short residence time pyrolysis of pulverized coal and model compounds

MERMER, NF
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute

MERNER, DR
0477 89 Room-and-pillar mining at Devco's Prince mine

MERRELL, GA
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MERRIAM, JS
1081 30 Low-temperature dissolution of coal

MERRICK, D
0176 78 Gasification of fuel
0178 363 The use of nonfossil-derived hydrogen in coal conversion processes
0178 383 The use of non-fossil derived hydrogen in coal conversion process - final report

0181 11 The use of non-fossil derived hydrogen in coal conversion process
0181 106 The use of non-fossil derived hydrogen: A possible role for coal conversion
0181 236 Coal gasification for combined cycle power generation: a general simulation method
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 215 Coal-fired fluid bed combustion augmented compressed air energy storage systems
0681 217 Compressed air energy storage using coal-fired fluidised bed combustors: a preliminary evaluation

MERRICK, EB
0681 181 Pilot-scale development of a low-NO//x coal-fired tangential system

MERRILL, RC
0275 24 Char oil energy development, Volume 1, Final report for the period Aug. 1971 - June 1975
0275 28 Char oil energy development, Volume 11 - Appendix B, computer program documentation, final report for the period August 18, 1971 through June 30, 1975

MERRIT, PC
0379 24 Modules create a 200-tph prep plant

MERRITT, R
1178 25 Converting to coal in process plants

MERRITT, PC
0377 10 Armco puts No. 10 mine on stream.
0378 42 Coal age operating handbook of coal preparation
0478 254 Hydraulic excavators. 1. New excavators find market in coal
0480 158 Longwalling aims for bigger slice
0481 93 MAPCO coal keeps right on growing
0481 107 Pioneer mine spurs Australian yield
0482 33 Exports spark South African coal
0482 35 Aussie exports nail down 2nd place

MERRY, JM
0676 32 Fluidization technology, volume 2

MERRYMAN, EL
0577 65 Emissions from the combustion of hydrothermally treated (clean) coal

MERZ, WE
0180 173 Correlation of the high-temperature corrosion behavior of structural alloys in coal conversion environments with the components of the alloys and of the corrosive environments

MERZKIRCH, W
0479 136 Dust entrainment in a shock-induced, turbulent air flow

MESEROLE, F
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

MESEROLE, FB
0679 110 Trace-element emissions from coal-fired power-plants

MESICH, FG
0179 214 Sampling and analysis of synthetic-fuel processes
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

MESKO, JE

0180 78 Coal Technology '80
0279 224 Combined gas-steam turbine cycle using coal derived liquid fuel - a viable alternative to direct combustion of coal?
0577 66 Fluidized combustion - pollution free burning of high-sulfur low grade fuels
0675 15 Multicell fluidized-bed boiler design, construction and test program. Fluidized-bed boiler cold modeling. Final report.
0677 48 High efficiency energy conversion cycles utilizing fluidized-bed combustion technology
0677 191 Light-off and initial operation of the 30 MWe Rivesville Multicell fluidized-bed boiler
0678 99 Coal combustion in a limestone bed
0680 69 Combustion of low quality coals in fluidized bed steam generators
0680 190 Economic analysis of coal burning fluidized bed steam and by-product power generation systems for industrial facilities
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MESSENGER, L
0279 48 Thermodynamics of the transformations of oxygen- and sulfur-containing functional groups during coal liquefaction in hydrogen and hydrogen-donor

MESSER, L
0375 2 Method and apparatus for controlled dewaterizing of coal treatment underflow

MESSER, JR
0978 5 Saskatchewan: Continuing exploration interest: Activity in Uranium, Potash, Coal
1177 29 The 29th Canadian conference on coal

MESSMAN, HC
0669 0 Method of recovering hydrocarbons by in-situ combustion

MESSMAN, RL
0669 0 Method of recovering hydrocarbons by in-situ combustion

METCALFE, AG
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

METCALFE, CE
0580 141 DUVAS (Derivative UV-Absorption Spectrometer): instrument description and operating manual

METCALFE, CI
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

METCALFE, MA
0478 214 Longwall/Shortwall mining equipment reliability, Maintainability and cost effectiveness study
0478 277 Longwall mine availability and delay analysis, Phase II, Part I - Technical Analysis
0478 281 Shortwall mine availability and delay analysis, Phase II. Part 1 - Technical Analysis
0478 282 Longwall/shortwall mine equipment availability and delay analysis, Final Technical Report

METENEY, DL
1080 120 Evaluation of an optical microscope method for coal-pyrite/marcasite differentiation

METER, WP VAN
0579 80 Environmental effects from leaching of coal conversion by-products

METHENY, DE
0376 3 Second Symposium on Coal Preparation

METRAILER, WJ
0180 228 Gasification process
0280 123 Combination hydroconversion coking and gasification

METZLER, RM
1081 174 Application of selected chemical reactions to the organic chemistry of coal - thesis

MEUZELAAR, HL
1081 3 Pyrolysis of coal as an analytical tool

MEYER, A
0181 123 The Saarberg-Otto-Process: First results with a particular view on influences and effects of mineral components

MEYER, B
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

MEYER, AP
0681 165 Development of the Adiabatic reformer to Process No. 2 Fuel oil and coal-derived liquid fuels

MEYER, HS
0182 38 Underground coal gasification

MEYER, JP
0178 233 Survey of industrial coal conversion equipment capabilities: High-temperature, high-pressure gas purification
0181 19 HFEM instrumentation for the Rocky Hill #2 field test
0281 329 Technical and economic evaluation of selected coal liquefaction processes. Phase 0. Preliminary screening evaluations
0378 62 A survey of processes for high-temperature - high-pressure gas purification
0479 69 Mathematical modeling of changes in the distribution of sulfur in coal as it undergoes mining and transport operations

MEYER, JS
0581 64 A reevaluation of the toxicity of coal conversion process waters

MEYER, JW
0177 119 Development of dry coal-feeders

MEYER, LD
0577 40 Soil erosion and sedimentation by water - An overview

MEYER, LL
0179 106 Implications of RCRA, SMCRA, and TSCA on underground coal gasification

MEYERHOFF, AA
0778 22 Coal resources of the Americas. Selected papers

MEYERS, S
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0574 4 Environmental impact statement requirements as related to fuel conversion technologies
1177 6 The utilization of solid-wastes for the generation of electric-power

MEYERS, RA

0376 3 Second Symposium on Coal Preparation
0377 47 Applicability of the Meyers process for desulfurization of United-States coal (A survey of 35 coals)
0377 48 Coal desulfurization test plant status - July 1977
0379 28 System optimizes coal desulfurization
0379 54 Coal desulfurization
0379 126 Preservation of reactor test unit and desulfurization of gob pile samples
0380 133 Chemical removal of organic sulfur from coal
0381 119 Gravimelt process for near complete chemical removal
0576 23 Review and status of the TRW/Meyers process

MEYERS, RJ
0579 56 Coal desulfurization by the Gravichem process.

MEYLER, J
0381 12 Dry flue gas scrubbing - A technique for the 1980's

MEYLER, JA
0180 78 Coal Technology '80

MEZ,
0878 28 Technical measurement prdblems of the hydrotransport test facility of Bergbau-Forschung GmbH

MEZAKI, R
0173 53 Identification of rate-controlling steps for the water-gas shift reaction over an iron oxide catalyst

MICCIO, M
0679 143 Calculation of carbon load and axial profiles of oxygen concentration in the bed of a fluidized combustor
0681 130 Carbon fines production and elutriation from the bed of a fluidized coal combustor

MICHAEL, JA
1078 47 A sensitive photoelectric winkler titrator for respiration measurements

MICHAELS, HJ
0177 38 Koppers-Totzek Economics and Inflation
0178 210 Hydrogen production via K-T gasification
0179 249 Methanol from coal using the Koppers-Totzek process
0180 78 Coal Technology '80
0181 219 Coal Technology '81, Vol. 4
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MICHAELS, LH
1177 7 Hybrid simulation of fuel cell power conversion systems

MICHALIK, L
0280 250 Co-pyrolysis of coal

MICHALSKI, P
0276 98 Coal liquefaction design practices manual

MICHAUD, ER
0681 97 Test results of the EPRI/B&W 6'x 6' fluidized bed combustor

MICHEL, H
1177 18 Theoretical method to determine monthly efficiency of flat plate solar-collectors
1177 19 Solar-energy and domestic heating needs

MICHELFELDER, S
0679 115 20 years of pulverized-coal firing research of IFF/DVV and actual - test results of pulverized-coal flames

MICHELSON, DC
0577 31 Analysis of coal and coal products

MIDDLETON, F
0478 252 Releasing the potential of longwall advancing faces, with particular reference to gate-end systems

MIDDLETON, AJ
0175 15 The manufacture of industrial-fuel-gas from coal on small scale

MIDDLETON, JA
0177 217 Evaluation of slag and refractory compatibility for low-BTU gasification of coal for electrical-power generation

MIDDLETON, MF
0782 3 Tectonic history from vitrinite reflectance

MIDKIFF, L
0679 68 Design your coal conveyor for long life and minimum maintenance

MIERNYK, WH
1179 47 Coal: problems and prospects in the 1980's

MIESSEROVA, OK
0178 372 Influence of the treatment of a gas coal with mineral acids on its capacity for undergoing hydrogenation
1076 34 An investigation of the nature of the organomineral compounds in brown coals
1079 211 The influence of O-Me bonds on the reaction properties of the humic acids of Irsha-Borodino coal

MIGHDOLL, P
0479 200 Advances in underground coal mine transportation
0480 41 United-States mines look to automated rails

MIGITAKA, W
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives
1081 106 Modifying ability of QI-free coal-tar pitch to develop optical anistropy in co-carbonizations

MIJATOVIC, I
0164 3 Retorting of Yugoslav (Aleksinac) oil-shale by gas combustion retort
0164 9 Hydrorefining of diesel-fuel and crude-oil derived from Aleksinac oil-shales

MIKELADZE, AS
0478 167 Rock pressure manifestations in faulted seams

MIKHAIL, M
0482 17 Studies of gas sorption and emission on Canadian coals

MIKHAIL, MW
0381 59 Recovery of thermal coal from waste dumps near Stellarton, Nova Scotia
0381 106 Influence of slimes in fine coal on separation efficiency of water-only-washing cyclone
0382 11 Performance evaluation of gravity separators in Canadian washeries
0382 15 Simulation of density separators in Canadian coal preparation-plants
0382 17 Some EMR facilities in western Canada for R & D on beneficiation of Canadian coals
0781 20 Methods for predicting size degradation of Western Canadian coals
0882 26 Prediction of size degradation of coarse coal during slurry pipeline transportation
1080 43 Size degradation of bituminous coal from Western-Canada

MIKHAIL, RS
1078 67 Porous structure of Maghara coal

MIKHAILOV, LM
0380 180 Regulating magnetite suspension viscosity in heavy-medium separators

MIKHAILOVA, AI
1078 165 The question of the ashing of coals in the determination of trace elements

MIKHAILOVA, GS
0278 186 Isolation of individual phenols from mixtures

MIKHIN, YI
1080 163 Dimensional and structural changes of pyrocarbon on heat treatment

MIKHLIN, JA
0282 97 An overview of coal liquefaction processes with special reference to the pyrolysis of Eastern Canadian coals

MIKKA, RA
1079 78 Petrographic characterization of coal using automatic image analysis

MIKNIS, FP
0179 119 Applications of cross polarization magic-angle spinning carbon-13 NMR to in-situ coal gasification
1078 184 Carbon-13 NMR studies of coals and oil shales
1079 30 Characterization of organic material in coal by proton-decoupled carbon-13 nuclear-magnetic-resonance with magic-angle spinning
1079 56 Calculating heating values from elemental compositions of fossil-fuels
1079 248 Carbon-13 NMR studies of coals by cross polarization and magic-angle spinning
1081 111 Cross-polarization magic-angle spinning 13//C NMR spectra of coals of varying rank
1081 190 C-13 NMR on solid samples and its application to coal science

MIKNIS, JJ
0477 94 Seventh Symposium on Coal Mine Drainage Research

MIKULA, RJ
0382 17 Some EMR facilities in western Canada for R & D on beneficiation of Canadian coals
0882 26 Prediction of size degradation of coarse coal during slurry pipeline transportation

MIKUNI, O
0681 147 Operation of coke oven with coal preheated by precarbon system

MILBURN, R
0580 58 Laboratory support

MILDENBERG, R
1078 15 Coal-tar chemistry - today and tomorrow

MILES, P
0479 192 CANMET's rock mechanics research at the Kidd Creek Mine

MILES, JM
0177 200 BI-GAS pilot-plant experience in mass flow measurement

MILES, RC
0479 93 Venturis ventilate and control dust

MILES, RD
0881 16 A regional railroad network optimization model for coal transportation

MILETENKO, IV
0478 169 Results of an investigation of the state of stress of the rocks around mine working (by the electroanalog method)

MILETICH, AF
0469 0 Air leakage and air leakage calculations in mine ventilation

MILEY, GH
0179 340 Overview of nonelectrical applications of fusion

MILICI, RC
0779 36 Evaluation of the coal reserves in the Whitwell Shale in the Southern Cumberland plateau in Tennessee - final report

MILLAN, MM
0581 17 Remote SO//2 mass flux measurements using COSPEC

MILLARD, V
1182 19 Policies that impact on the development of Alberta's coal reserves

MILLARD, RE
0379 17 Processing coal slurry for utility use

MILLER, D
0881 47 Coal Technology '81, Vol. 1

MILLER, G
0280 65 Experiments on heat exchanger solidity for coal-fired fluidized-bed applications
0677 138 Fluid dynamics of a fluidized-bed packed with heat-exchangers, Annual Report, Feb. 1976 - Jan. 1977, Part A. The pilot fluidized-bed - Experiments analysis and conclusions, Part B. The large scale fluidized-bed facility
0677 201 Investigation of methods for improving heat-transfer film coefficients in a fluidized-bed packed with heat-exchangers
0678 35 Heat-exchanger designs for coal-fired fluidized-bed
0679 191 Bed expansion and attrition studies in a coal-fired fluidized bed
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0680 240 Bed expansion and heat transfer measurements in a pressurized fluidized bed
0681 152 Bed expansion studies and slugging characteristics in a pressurized fluidized bed of large particles

MILLER, R
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
1082 82 Hydrocarbon class fractionation with bonded-phase liquid chromatography

MILLER, S
1176 5 The economics of nuclear and coal power

MILLER, CL
0180 250 The direction and scope of the US Department of Energy's surface coal gasification program
0180 275 The current technological and economic status of high-Btu gas from coal
0577 14 Environmental planning for ERDA's coal gasification technologies

MILLER, DJ
0181 83 Mass spectroscopic characterization of tars from the gasification of low-rank coals

1080 169 Organic structural studies of lignite coal tars

MILLER, EC
0178 49 New coal technologies attracting attention

MILLER, EJ
0476 23 Second Symposium on Underground Mining

MILLER, GE
1076 33 Material balance in coal 1. Material balance and oxygen stoichiometry of six coals from the Wyodak bed, Campbell County, Wyoming
1078 9 Material balance in coal. 2. Oxygen determination and stoichiometry of 33 coals

MILLER, GG
0480 179 Design consideration of terrace-pit mining
0580 158 Selective overburden placement

MILLER, IR
0280 51 Looking at catalysts for improving liquefaction routes

MILLER, JD
0278 120 Viscosity reduction in coal liquefaction bottoms via silylation

MILLER, JF
0177 90 Coal processing technology, Volume 3
0375 5 The Battelle hydrothermal coal process
1177 16 Coal desulfurization by the Battelle hydrothermal coal process

MILLER, JG
1078 41 Charge transfer complexes of coal-derived asphaltenes

MILLER, JP
0474 3 Fifth Symposium on Coal Mine Drainage Research

MILLER, JT
0474 3 Fifth Symposium on Coal Mine Drainage Research

MILLER, JW
0380 69 Desulfurization of coal
0381 50 Process for desulfurizing coal and producing synthetic fuels

MILLER, KJ
0377 24 Coal-pyrite flotation in concentrated pulp
0378 1 Desulfurization of various Midwestern coals by flotation
0380 114 Evaluation of collector addition in the flotation of various U.S. coals
0381 53 Comparing two methods for removing sulfur
0381 91 Surface chemical problems in coal flotation

MILLER, LJ
0381 83 Evaluation of the removal of organic sulfur from coal

MILLER, MJ
0581 92 Advances in environmental control technology for coal-fired power plants

MILLER, MM
0579 108 Environmental effects of Western coal surface mining. Part III: The water quality of Trout Creek, Colorado
0580 117 Environmental effects of Western coal combustion: Part III - The water quality of Rosebud-Creek, Montana

MILLER, MR
0380 168 Solvent pretreatment of feed coal for briquetting

MILLER, PD
0179 199 The reduction of silica with carbon and silicon carbide
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

MILLER, RD
0279 207 Coal liquefaction with synthesis gas

MILLER, RH
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MILLER, RL
0279 113 The effect of solvent on solvent refined coal denitrification
0282 13 Hydroliquefaction of Wyodak coal using bottoms recycle
0282 23 Upgrading of recycle solvent used in the direct liquefaction of Wyodak coal
0282 87 Effect of Wyoming coal properties on direct-liquefaction reactivity
0681 127 How to make fiberglass bags last longer on coal-fired boilers

MILLER, RM
0476 21 Fourth Symposium on surface-mining and reclamation
0577 79 Microbial ecology of coal mine refuse

MILLER, RN
0677 83 Variations in organic constituents of some low rank coals
0681 77 DTGA combustion of coals in the Exxon coal library
1073 18 Major, minor, and trace-elements in the liquid product and solid residue from catalytic hydrogenation of coals
1077 61 A geochemical study of the inorganic constituents in some low-rank coals
1078 83 Determination of forms of sulfur in coals
1079 77 Determination of the mineral-matter contents of coals by low-temperature ashing
1080 225 Coal characterization research: sample selection, preparation, and analyses

MILLER, SE
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MILLER, TS
1082 72 Reactions of small covalent molecules with coal: trifluoroacetic acid

MILLER, WE
0374 0 Coal utilization symposium - Focus on SO//2 emission control

MILLER, WH
0180 78 Coal Technology '80

MILLER, WJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
1076 2 Thermodynamic properties of some negative ions and gaseous K-compounds from the combustion of coal impurities

MILLER, WR
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

MILLIGAN, D
0177 221 Development of a fast fluid-bed gasifier. Phase 1-Tasks 1 and 2. Annual report, July 1976 - June 1977

MILLIGAN, AW
0478 83 Surface reclamation situations and practices on coal exploration and surface-mine sites at Sparwood, B.C.

MILLIGAN, JD
0578 36 Environmental evaluation of ash disposal at coal-fired power-plants
0580 175 Effects of coal-ash leachate on ground water quality

MILLIKEN, JC
0377 26 Coal preparation - 1977

MILLIRON, DL
0282 169 Process for blending coal with water immiscible liquid

MILLS, D
1082 74 Differential-pulse voltammetry at the Hanging-Mercury-Drop electrode for identification of aromatic structures in coal extracts

MILLS, G
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

MILLS, DR
0181 181 The interrelationship of graphite intercalation compounds, ions of aromatic hydrocarbons, and coal conversion. II

MILLS, EA
0174 12 Coal processing technology
0177 90 Coal processing technology, Volume 3

MILLS, FS
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

MILLS, GA
0180 18 Coal to gasoline via syngas
0278 180 Coal and shale: alternative fuels for the midterm
0281 197 Synfuels from coal: progress in the USA
0282 190 Catalytic concepts in coal conversion

MILLS, JB
0181 199 Environmental implications of small fixed-bed gasifiers for industry

MILLS, JC
0580 169 Environmental significance and analysis of trace elements in coal and coal products
0581 23 Direct determination of trace elements in coal: Wavelength-dispersive x-ray spectrometry with matrix correction using compton scattered radiation

MILLS, LJ
0478 129 Hydraulic mining in the USSR
0479 145 Capcoal, Australia, the German Project, Queensland, Australia
0482 53 Control technology in coal mining

MILLS, PE
0676 32 Fluidization technology, volume 2

MILLS, PS
0481 118 Pump packing developments at Hem Heath Colliery

MILLS, TR
0476 22 Sixth Symposium on Coal Mine Drainage Research
0477 68 Federal Leasable and locatable mineral regulations: An environmental guide for resource managers

MILNE, RT
0182 50 Oxygen-enriched anthracite gasification

MILNE, TA
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0677 93 Direct mass-spectrometric sampling of corrosion related gaseous species from laboratory pulverized coal air flames
0677 243 Direct sampling and characterization of gaseous species responsible for fireside corrosion in fossil-fuel-fired systems. Annual report, Phase-1, April 1976 - July 1977

MILOVSOROFF, P
0676 5 Development program for an ionizer-precipitator fine particle dust collection system as applied to coal-fired utility steam generators

MILSTEIN, D
0176 35 Conversion of Fischer-Tropsch heavy product to high quality jet-fuels

MILVET, JA
0476 23 Second Symposium on Underground Mining

MIMA, JA
0173 42 Pressurized hydrogasification of raw coal in a dilute-phase-reactor
0576 11 Free fall dilute phase hydrogasification of coal

MIMA, MJ
0276 93 Method for the determination of benzene insolubles, asphaltenes, and oils in coal-derived liquids
0278 26 Comparison of methods for determining asphaltenes in coal-derived liquid-fuels.
0280 287 Comparison of methods for the determination of asphaltenes, oils and insolubles: part I - a coal-derived liquid
0280 298 Comparison of methods for the determination of asphaltenes, oils and insolubles - Part II

MIMS, C
0179 280 Kinetics of char burnout and ash vaporization in coal-fired MHD combustors

MIMS, CA
0180 281 Alkali catalyzed carbon gasification 1. Nature of the catalytic sites
0180 282 Alkali catalyzed carbon gasification 2. Kinetics and mechanism
0680 178 Laboratory studies of mineral matter vaporization during coal combustion

MIN, O
0182 39 Temperature and cavity configuration modeling associated with moving boundary in underground coal conversion problems

MIN, S
0376 3 Second Symposium on Coal Preparation
0377 43 A comparison of coal beneficiation methods
0379 117 Environmental assessment of coal cleaning processes. Technology overview

MIN, OK

0182 95 Status of technology associated with cavity and subsidence response prediction associated with underground coal conversion

MINARD, R
0380 164 Low temperature chemical fragmentation of coal

MINARD, RD
0280 329 Chemical changes in coal liquefaction
1080 85 Dihydroaromatic structure of Illinois No. 6 Monterey coal
1080 115 Chemical structure of Wyodak coal
1081 29 Linear alkane chains in coals
1082 38 Aryl-alkyl groups in coals

MINCHENER, AJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0679 67 High temperature corrosion in fluidized-bed combustors
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 180 Materials problems in fluidized-bed combustion systems

MINDELI, MM
0379 123 Automated dispensing of coal blend constituents

MINDHEIM, WJ
0574 19 Environmental factors in coal liquefaction plant design

MINEAR, RA
0477 92 Fifth Symposium on Surface-mining and reclamation
0579 21 Environmental aspects of coal production in the Appalachian region progress report for June 1978 - May 1979

MINICK, DJ
0179 323 Pollutants from synthetic fuels production: Sampling and analysis methods for coal gasification
0180 37 Determination of phenolics in coal gasifier condensate by high performance liquid chromatography with low-wavelength ultraviolet detection

MINK, WH
0179 227 Utility gas from an agglomerating burner gasifier

MINKEL, KJ
0178 187 LLL in-situ coal gasification program, Annual report fiscal year 1977

MINKIN, JA
0780 22 Application of automated image analysis to coal petrography
1079 197 Distribution of elements in coal macerals and minerals: Determination by electron microprobe
1079 223 Modes of occurrence of selected trace elements in several Appalachian coals
1081 99 Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe

MINNICK, LJ
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0677 170 Commercial application studies of fluidized-bed combustion residue materials
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MINNUCCI, C
0481 131 Industrial engineering: What you can do now to increase productivity

MINOR, BM
0374 0 Coal utilization symposium - Focus on SO//2 emission control

MIORIN, AF
0476 22 Sixth Symposium on Coal Mine Drainage Research

MIRANDA, JE
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

MIRENKOV, VE
0477 79 Three-dimensional experimental-analytical method of determining the mechanical state of the rock in-situ
0478 303 Concerning abutment pressure in the vicinity of a horizontal working

MIRINGOF, NS
0163 1 Underground processing of fuels

MIRODATOS, C
0181 258 Chemistry of silica-supported catalysts: preparation, activation and reduction

MIROEDOVA, EV
0163 1 Underground processing of fuels

MIROSHNICHENKO, AM
1078 110 Investigation of the nonvolatile liquid substances isolated from the plastic mass of coal

MIRZA, ZI
0180 130 Recovering hydrocarbons from hydrocarbon-containing vapors

MISCOE, AJ
0878 21 Hydrotransport in the United-States - Progress Report

MISHRA, AK
1079 32 Microbial removal of organic sulfur from coal
1080 34 Removal of sulphur from coal by thiobacillus ferroxidans and by mixed aciodophilic bacteria present in coal

MISHRA, RM
0478 208 Systems concept for coal mine ventilation

MISHRA, SK
0380 113 Improving fines flotation recovery

MISKELL, JT
0878 35 How will all the coal be shipped?
1180 20 Oil companies and coal: No conflict of interest

MISRA, A
0881 50 Wear resistant alloys for coal handling equipment - Final Technical Report, October 1, 1977-March 31, 1981

MISRA, DD
0379 45 Correlation of size and effective separation density in coal washing using heavy media

MISRA, GB
0477 153 Ground vibrations from open pit blasts

MISSAVAGE, RJ
1081 196 Rheological and pumping characteristics of ethacoal

MISTRY, DK
0177 120 Dry coal-feeder development program at Ingersoll-Rand Research, Inc.
0178 176 Development of coal screw feeder: Phase II Report
0178 205 Development of coal piston feeder, Phase-I, Final Report
0678 201 Feasibility of spraying and feeding fully plasticized coal

MITANI, T
0481 81 A flame inhibition theory by inert dust and spray

MITCHELL, M
0780 10 Modelling geological uncertainty for mine planning

MITCHELL, DA
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

MITCHELL, DS
0176 117 Countercurrent plug-like flow of two solids

MITCHELL, DW
0475 9 First Symposium on Underground Mining, Volume I

MITCHELL, ER
0656 0 A review of European work on solid fuel gas-turbines
0674 6 Coal Properties bearing on combustion
1174 0 26th Canadian conference on coal

MITCHELL, GD
0276 51 A petrographic classification of solid residues derived from the hydrogenation of bituminous coals
0279 44 The nature of solids accumulated during solvent-refining of coal
0680 24 Direct observation of the mesophase in coal
1081 203 Organic oxygen and sulfur analysis of various coal macerals

MITCHELL, HA
0679 138 Technology assessment for an atmospheric fluidized-bed combustion demonstration plant

MITCHELL, JW
0578 48 Pollution control critical in coal conversion processes
0582 25 A kinetic model of nitric oxide formation during pulverized coal combustion

MITCHELL, PJ
0681 13 Fireside corrosion of reheater tubes

MITCHELL, SC
1078 66 Porous nature of solvent-extracted coals

MITCHELL, TD
0277 126 Phenolic recycle solvent in two-stage coal liquefaction process

MITCHELL, TO
0276 44 Short contact time coal liquefaction
0277 9 Asphaltols - Keys to Coal Liquefaction
0280 48 Deactivation of hydrotreating catalysts during coal liquefaction
0280 187 Structural changes occurring in coal liquefaction
0281 171 Liquefaction of acid treated coal
0281 305 Desulfurization, demetalation and denitrogenation of coal

MITCHELL, WN
0280 137 Hydrogen-donor coal liquefaction process

MITCHNER, M
0677 128 A high magnetic field MHD generator program, Annual report, July 1976 - June 1977

MITHAL, VP
1080 121 Comparison of the characteristics of pitch coke and petroleum coke

MITKOWKI, E
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MITRA, KK
1078 137 A nomogram for scientific and commercial evaluation of coal

MITRA, PK
0677 76 Sulfur in coal and its transformation during pyrolysis
1077 59 Devolatilization characteristics of carbonaceous solid fuels, with special reference to coal

MITSAK, DM
0173 12 Symposium papers, Clean fuels from coal
0174 15 Economics of the Koppers-Totzek Process
0175 14 Koppers-Totzek: Take a long hard look
0177 38 Koppers-Totzek Economics and Inflation
0574 13 Clean environment with Koppers-Totzek process

MITSCH, WJ
0578 52 Impact of mine drainage on a mountain stream in Pennsylvania

MITSUI, S
0676 32 Fluidization technology, volume 2

MITTELMAN, JJ
1078 49 EPR study of the absorption of iodine by coal

MITTLEMAN, JJ
0680 196 Performance and projections of the electrostatic precipitator in a fluid bed environment

MITZE,
0878 23 Practical problems in hydrotransport systems

MIURA, S
1080 70 Change of pore properties during carbonization of coking coal

MIURA, Y
0378 20 Consideration on coal blending theory
0681 222 Coal blending theory - retrospect and prospect
0879 1 Weathering of coal during storage
1079 190 Carbonization behavior of coal briquettes
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives
1081 67 Carbonization behaviour of coal briquettes in a slot-type oven

MIXON, DA
0379 111 Oxydesulfurization of coal by acidic iron sulfate solutions

MIXON, FO
0579 113 Pollutants from synthetic fuels production: Coal gasification screening test results

MIYADERA, H
0178 104 Effects of reaction conditions on gasification of coal-residual oil slurry

MIYAGAWA, I
1079 79 Electon nuclear double resonance signals from three ingredients of coal

MIYAHARA, K
0179 21 Catalytic reduction of carbon-dioxide. 1. Reduction of carbon-dioxide with carbon-carrying potassium-carbonate

MIYAKE, M
0280 22 Improved method to alkylate Yubari coal of Japan using molten potassium under refluxing THF
0282 4 Hydrogenation of Yubari coal coated wth ZnCl//2-MCl//n(CuCl, CrCl//3, and MoCl//5) catalyst melts
0282 9 Catalytic activities of binary molten salts composed of ZnCl//2 and metal chlorides for hydrocracking of phenanthrene

MIYAMOTO, S
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

MIYANAMI, K
0276 80 A model for the extractive coal liquefaction: I, modeling and stimulation of the Nenken coal liquefaction process
0278 40 Model for extractive coal liquefaction - modeling and simulation of NenKen process without coal particle disintegration

MIYASAKA, K
0679 164 Combustion and agglomeration of coal-oil mixtures in furnace environments

MIYAZAI, T
1078 30 Influence of non-coking-coal on the quality of metallurgical-coke

MIYAZAWA, K
0279 175 Temperature dependence of NMR absorption in coal and pitch
1078 61 Aromaticity of coal extract by 1H and 13C pulsed n.m.r. methods
1079 50 High temperature proton NMR study of coal and pitch at the early stages of carbonization
1079 58 Spin-diffusion effects in spin-lattice relaxation in coals
1081 87 High-temperature Proton NMR study of oxidized coal
1081 108 Nuclear magnetic proton relaxation studies of oxidized coals
1081 164 Temperature dependence of hydrogen-1 NMR absorption in coal and pitch

MIYAZU, T
0681 196 The assessment of metallurgical coke and coal in relating to blast furnace practice
1079 6 Problems of the analysis and testing of coal

MIZIN, VG
1080 171 Physicochemical properties of lean coal as a carbonaceous reducing agent

MIZUGUCHI, K
1078 20 Nuclear-spin-relaxation in cobalt-aluminum (coal) system

MLADEJOVSKY, MG
0278 16 Residence-time measurements in a coal hydrogenation process

MOAVENI, M
0680 227 How Detroit Edison solved wet and frozen coal-flow problems at its Monroe power plant

MOBLEY, DP

0278 223 Chemical changes produced in coal through the action of Lewis acid catalysts
1080 29 Effects of zinc chloride on sulfur removal from coal-related structures

MOBLEY, JD
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II
0680 149 Technical and economic assessment of NO//x flue gas treatment technology
0681 188 Coal Technology '81, Vol. 3
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

MOCHALOV, VV
1080 131 Modification of coal anticorrosion compounds

MOCHALOVA, RV
1079 163 Use of interconnected indices of the properties of charges for predicting the quality of coke.
1081 216 Viscosity of coal charges in the plastic state

MOCHIDA, I
0181 29 Catalytic gasification of metallurgical coke by carbon dioxide using potassium salts
0279 88 Solvolytic liquefaction of coals with a series of solvents
0280 17 Carbonization and liquid-crystal (mesophase) development. 16. Carbonizations of soluble and insoluble fractions of coal-extract solution
0280 21 Carbonization and liquid-crystal (mesophase) development. 17. Co-carbonization of a solvent-refined coal with petroleum pitches and hydrogenated coal-extract solution
0280 235 Coal liquefaction under atmospheric pressure
0281 125 Efficient liquefaction of Australian brown coal with a hydrogen-donating solvent under atmospheric pressure
0282 154 Liquefaction of subbituminous coals under apparently non-hydrogenative conditions
0282 200 Binderless moulding of green cokes delivered from solvent refined coal and ethylene tar pitch
1081 66 Mechanism of carbonization of a semi-anthracite
1081 78 Carbonization of an anthracene oil extract of Akabira (Japan) coal
1081 106 Modifying ability of QI-free coal-tar pitch to develop optical anistropy in co-carbonizations
1082 56 Carbonization of coals to produce anisotropic cokes. 1. Modifying activities of some additives in the co-carbonization of low-rank coals
1082 57 Carbonization of coals to produce anisotropic cokes. 2. Up-grading of modification activities of petroleum process residues and their correlation with structural parameters

MODELL, M
0173 37 Deuterium and carbon-13 tagging studies of the plasma pyrolysis of coal
0175 76 Gasification process

MODI, RJ
0278 205 Investigation of mechanisms of hydrogen transfer in coal hydrogenation, phase 1, final report, July, 1976 - December 1977
0279 81 Isomerization and adduction of hydrogen-donor solvents under conditions of coal liquefaction

MODRAK, TM
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 97 Test results of the EPRI/B&W 6'x 6' fluidized bed combustor

MOE, JM
0173 12 Symposium papers, Clean fuels from coal
0177 26 Ammonia from coal
0574 11 Environmental aspects of the WESCO coal gasification plant

MOE, RC

0577 48 Mechanical erosion control for agricultural areas

MOELLER, AD
0179 332 Deactivation by carbon of nickel and nickel-molybdenum methanation catalysts
0182 73 Deactivation by carbon of nickel, nickel-ruthenium, and nickel-molybdenum methanation catalysts

MOELLER, FW
0173 52 Process for the manufacture of a gas interchangeable with natural-gas
0174 6 Methanation of coal gas for SNG
0174 56 Effect of certain reaction parameters on methanation of coal-gas to SNG
0178 44 Synthetic-natural-gas from oil and coal

MOEN, DE
0181 223 Technology and use of lignite, Vol. 1 and 2

MOFFAT, BK
0678 248 Study of electric plant applications for low-Btu gasification of coal for electric power generation. Final report, R and D, Task 11 (phase 1), July 1974 - August 1978

MOGAN, JP
0481 105 The impact on underground ventilation of the reduction of diesel emissions toxicity by water-in-oil fuel emulsification

MOGDIS, FJ
0476 23 Second Symposium on Underground Mining

MOGER, G
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal

MOGUL, JM
0178 175 Design of a high efficiency combined-cycle electric-power-plant for low-Btu coal gas
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0280 25 High-temperature turbine for operation on coal-derived fuel
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MOH, TT
0378 46 Solvent-refined-coal (SRC) process: Development of a process for producing an ashless, low-sulfur fuel from coal. Research and development report No. 53, Interim report No. 20. Volume IV. Product Studies. Part II. Processing of coal minerals for the period 1975 - 1976

MOHAN, G
0281 7 Kinetics of donor-solvent liquefaction of bituminous coals in nonisothermal experiments

MOHAN, R
0179 118 Reaction of coke particles with air: Effect of diffusion on reaction rate

MOHIBATSELA, TS
0480 13 Analysis of equipment requirements for anthracite open-pit mining

MOHLA, DC
0281 62 Impedance heating for pilot plant process lines

MOHN, NC
0177 251 Environmental considerations for low-Btu gasification of coal for electric-power generation
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MOHTADI, M
0179 107 Hydrogasification of Bituminous Coal
0179 297 Overview of the laboratory work in Aachen in the field of underground coal gasification
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 77 Mathematical modeling of the In Situ coal gasification process

MOISEEVA, AF
1078 154 Study of the composition of the acid part of refined brown-coal wax

MOK, LK
0281 334 Ultraflash pyrolysis (ultrapyrolysis) process for coal, wood and other carbonaceous materials

MOKKAPATI, C
0481 45 A technique for optimal sequential maintenance scheduling

MOLAYEM, B
0177 221 Development of a fast fluid-bed gasifier. Phase 1-Tasks 1 and 2. Annual report, July 1976 - June 1977
0675 9 Fluidized-bed combustion of coarse agglomerating coals

MOLCHANOVA, IV
0280 314 The carcinogenicity of the liquid products from the pyrolysis of brown coals

MOLDENHAUER, WC
0577 43 Predicting soil erosion

MOLDYBAEV, AB
1079 233 A study of oxidative ammonolysis of Maikubenskii coal
1081 205 The use of the method of rational planning of experimental work in the oxidation of the brown coal of the Maikuben Deposit

MOLE, T
0275 26 Coal hydrogenation using throw-away catalysts

MOLES, FD
0681 201 The effect of coal rank on the heat release from coal/oil dispersions

MOLHOT, PA
0580 114 Bibliography of aquatic ecosystem effects, analytical methods and treatment technologies for organic compounds in advanced fossil-fuel processing effluents

MOLINER, R
1081 48 Amino-acids in humic, nitrohumic and nitrofuvic acids from coal
1082 27 Gel permeation chromatography applied to the study of the nitrohumic acids from coal

MOLL, AJ
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 188 Preliminary market evaluation for gas produced by underground gasification of western coal, Final report
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0180 78 Coal Technology '80
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0181 219 Coal Technology '81, Vol. 4

0182 48 Coal gasification - an overview
0281 248 Coal liquefaction: direct versus indirect - making a choice

MOLL, NG
0177 211 Conversion process for solid, hydrocarbonaceous materials
0277 60 Coal hydrogenation catalyst recycle
0278 59 The DOW coal liquefaction process
0279 56 Dow coal liquefaction process

MOLL, RT
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

MOLLER, FW
0178 67 SNG from coal and oil

MOLOTILOV, SG
0477 81 Rate of development of mining operations in open pits

MOLOTKOV, VI
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MONAGHAN, DA
0475 9 First Symposium on Underground Mining, Volume I
0476 23 Second Symposium on Underground Mining

MONCUR, RH
1181 24 Opportunities for lignite development in Saskatchewan

MONDRAGON, F
0282 38 Coal liquefaction by the hydrogen produced from methanol
1081 161 Solubilities of Taiheiyo (Japan) coal in a series of alcohols

MONDY, LA
0182 68 The drying of coal in underground gasification

MONES, CG
0182 67 A comparison of forward combustion gasification models

MONIER, P
0481 23 COALMOD: A financial analysis and policy simulation model for coal mining developments

MONIN, JC
0781 13 Example of the enrichment of carbon-13 in coals in the process of coalification

MONSON, JR
0681 88 Review of injection of coal into blast furnace tuyeres

MONTAGNA, AA
0276 60 Conversion of carbonaceous materials
0279 67 Characterization of coal liquefaction catalysts using 1-methyl-naphthalene as a model compound
0280 113 Coal liquefaction catalysts

MONTAGNA, JC
0178 272 Coal processing technology, Volume IV
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0677 39 Reducing the environmental impact of solid wastes from a fluidized-bed combustor
0677 66 Fluidized-bed regeneration of sulfated dolomite from a coal-fired FBC process by reductive decomposition

0677 175 Sulfated limestone regeneration and general FBC support studies
0678 133 Regeneration of sulfated dolomite by reductive decomposition with coal in a fluidized-bed-reactor
0678 134 High-temperature fluidization and agglomeration characteristics of limestone and coal-ash particle systems
0678 200 Evaluation of on-line light-scattering optical particle analyzers for measurements at high temperature and pressure
0680 153 Process costs and flowsheets, bed defluidization characteristics, stone reactivity changes and attrition losses for a regenerative fluidized-bed combustion process

MONTAGUE, AP
0576 4 The potential for using sewage sludges and compost in the mine reclamation

MONTANINO, LN
0177 30 High Mass Flux Coal Gasifier: Phase 1, Final Report
0179 53 High mass flux coal gasifier. Final report, Phase II

MONTANO, PA
0281 158 Moessbauer study of transformations of pyrite under conditions of coal liquefaction
0281 163 In-situ Moessbauer spectroscopic study of the behaviour of tin (II) chloride during coal hydrogenation
0281 279 Moessbauer study of the transformation of iron minerals during coal conversion
0281 319 Mineral matter effects in coal conversion
0680 13 Stoichiometry of iron sulfides in liquefaction residues and correlation with conversion
1077 2 Moessbauer-spectroscopy of iron compounds found in West-Virginia coals
1078 29 Magnetic hyperfine parameters of iron containing minerals in coals
1078 50 Application of Moessbauer-spectroscopy to monitor acid-mine-drainage potentials of coal seams
1079 250 Characterization of iron bearing minerals in coal
1081 62 In-situ study of the decomposition of pyrite in an oxygen atmosphere
1081 107 Moessbauer study of decomposition of pyrite in hydrogen
1081 141 Application of Moessbauer spectroscopy to coal characterization and utilization
1082 37 Moessbauer study of the thermal decomposition of FeS//2 in coal

MONTEIRO, JL
0182 33 Kinetics of coal gasification

MONTELLANICO, P
0881 37 Coal transportation: an analysis of cost and energy requirements
0882 10 Coal transport chain: a cost and energy analysis of two technical systems: a slurry system vs. a conventional bulk transport system

MONTFORT, JG
0180 78 Coal Technology '80
0882 29 Operating experience of the Black Mesa pipeline

MONTGOMERY, B
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MONTGOMERY, CT
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0379 101 Oxidized coal - what it is and how it affects your preparation plant performance

MONTGOMERY, DS
0274 1 Coal Properties Bearing on Coal Liquefaction and Gasification
1077 63 The variation of the microhardness and reflectance of coal under conditions of oxidation simulating weathering

MONTGOMERY, GG
0181 223 Technology and use of lignite, Vol. 1 and 2

MONTGOMERY, WD

1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

MONTGOMERY, WJ
1070 4 Chemical analyses of the ash of Canadian coals
1074 7 Assessment of Mont-Joli coal
1079 107 Analysis directory of Canadian commercial coals. Supplement No. 3
1079 116 Assessment of Mont-Joli coal

MONTRONE, ED
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

MOO-YOUNG, M
0282 170 Three phase reactors: trickle bed, slurry, bubble column - theory, scale up, design

MOODY, BE
0174 12 Coal processing technology

MOODY, DR
0677 44 The solid-fuel gas-turbine for industrial energy production

MOODY, JD
0680 74 Carbonate sulfur sorbent studies
1178 4 Energy-crisis: Energy Solution: Two case histories

MOODY, MM
0778 21 Interpretations of field hydraulic tests in explosion-fractured coal: Hoe Creek, Site characterization to experiment No. 1

MOOMAU, HF
0474 3 Fifth Symposium on Coal Mine Drainage Research

MOON, RA
0181 157 TVA ammonia from coal project: Update

MOON, SH
0280 199 A simultaneous IR/kinetic study of supported platinium methanation catalysts

MOON, TC
0579 6 Effects of acid-mine-drainage on a southwestern Pennsylvania stream

MOON, WG
0278 117 Solvent-refined-coal (SRC) process. Development of a process for producing an ashless, low sulfur fuel from coal. Volume 11, Laboratory studies, part 4. Laboratory reactor studies and development of process variations

MOORE, K
0482 54 Chainless haulage - ten years' experience

MOORE, AS
0178 75 Cleaning producer-gas from the MERC gasifier

MOORE, DF
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

MOORE, DO
0281 222 Coal can be gasoline
0579 86 Coal conversion control technology, Volume 1. Environmental regulations liquid effluents

MOORE, GF
0373 0 Western coals - laboratory characterization and field evaluations of cleaning requirements
0378 2 Determine coal grindability
0674 10 Burning the sub-bituminous coals of Montana and Wyoming in large utility boilers
1076 31 Empirical correlation of coal ash viscosity with ash chemical composition

MOORE, GT
0578 108 Emissions from a coal-fired power plant: a material balance study of selected volatile trace elements - dissertation

MOORE, HF
0278 17 Synthetic-oil from coal, The economic impact of five alternatives for making hydrogen from coal
0279 80 Synthetic oil from coal - The economic impact of five alternatives for making hydrogen from coal and steam

MOORE, HR
0179 0 The cost of hydrogen from coal

MOORE, JC
0881 48 Coal Technology '81, Vol. 2

MOORE, JJ
1081 145 In-flight plasma reduction of domestic chromite

MOORE, JW
0876 1 Water quality consideration in the slurry pipelining of coal
0881 41 The effects of coal slurry pipelining of eastern coal on water quality
0882 14 Water quality aspects of coal slurry pipelining - a literature survey

MOORE, KA
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MOORE, KC
0580 45 Inorganic-classical analysis of energy resources

MOORE, LP
0279 196 Characterization of hydrolytically solubilized coal
0481 152 Prediction of methane in Cape Breton mines
1077 40 Oxidative degradation studies of coal and solvent-refined-coal
1078 57 Trapped organic compounds and aromatic units in coals
1078 121 Characterization of organic acids trapped in coals
1079 104 Lignin-like polymers in coals
1080 17 Characterization of a complex mixture of aromatic and heterocyclic acids obtained from oxidation of lignite coal and its solvent-refined products
1081 26 Investigation of aqueous sodium dichromate oxidation for coal structural studies
1081 171 Structural characterization of coal: Lignin-like polymers in coals

MOORE, PJ
0481 69 Vibratory cutting of brown coal

MOORE, RE
0577 53 Radiological impact of airborne effluents of coal-fired and nuclear power plants
0580 82 Coal mine disposal of flue gas cleaning wastes

MOORE, RG
0280 52 Bitumen separation for experimental use

MOORE, RH
0177 100 Removal of sulfur compounds from fuel-gases
0276 14 Process for coal liquefaction using electrodeposited catalyst
0276 30 Process for catalytic depolymerization of coal to liquid-fuel

MOORE, RS
0382 30 Beneficiation techniques applicable to Nova Scotian coals: a literature review

MOORE, RT
0475 8 Third Symposium on Surface-mining and reclamation, Volume II
0477 68 Federal Leasable and locatable mineral regulations: An environmental guide for resource managers
0477 92 Fifth Symposium on Surface-mining and reclamation

MOORE, TJ
0881 47 Coal Technology '81, Vol. 1

MOORTY, S R
0280 53 Separation of noscapine, papaverine and cryptopine from a crude mixture

MORA, RR
0180 78 Coal Technology '80

MORALES-BRINK, D
0581 1 Hydrologic impacts from potential coal strip mining - Northern Cheyenne Reservation - project summary

MORAN, SR
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III
0778 7 Geologic, hydrologic, and geochemical concepts and techniques in overburden characterizations for mined-land reclamation
0778 33 Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North-Dakota

MORBIDELLI, M
0282 149 An approximate mathematical model for three-phase multistaged separators

MORCOMB, JT
0181 19 HFEM instrumentation for the Rocky Hill #2 field test

MORDELL, DL
0656 1 Indirect Fired Gas-Turbines

MOREL, WC
0177 139 Economic evaluations of intermediate-Btu-gas plants meeting the energy demands
0178 107 Economics of producing ammonia from coal by pressurized entrained and Koppers-Totzek gasification
0379 10 Chemical desulfurization: a misunderstood technology
0379 79 An economic evaluation of the coal oxydesulfurization process - one unit train per day of coal
0379 80 An economic evaluation of the modified coal oxydesulfurization process - one unit train per day of coal

MORELAND, C
0161 0 A low-temperature carbonization assay of Alberta coals
0161 1 Pilot-plant investigations of low-temperature coal carbonization in a fluidized-bed
1063 0 Settling velocities of coal particles
1063 1 The pipeline flow of coal-in-oil suspensions
1063 2 Viscosity of suspensions of coal in mineral oil

MORETON, G

	0479 111	Study of erosion and corrosion of materials used in hydraulic equipment with fire-resistant fluids
MORETTI, PM		
	1177 5	Evaluation of wind generator economics in a load duration context
MOREY, BW		
	0380 39	Oil agglomeration offers technical and economical advantages
MOREY, PG		
	0477 92	Fifth Symposium on Surface-mining and reclamation
	0479 132	Optimization of dragline operation
MORGAN, D		
	0481 16	Manufacturing for the plan for coal
MORGAN, BB		
	0667 0	Combustion of pulverised coal
MORGAN, BE		
	0477 95	Third Symposium on Underground Mining
MORGAN, JD		
	0381 9	Evaluation of coal blending systems
	1077 17	UMR-DNR Conference on Energy, Theme: Energy Crisis - Where Do We go from Here?
	1176 1	Third annual UMR-MEC conference on energy
MORGAN, JR		
	0180 78	Coal Technology '80
MORGAN, MD		
	0482 50	A new underground radio communications system
MORGAN, ME		
	0578 26	Probabilistic methodology for estimating air pollution health effects from coal-fired power plants
	0781 11	Inorganic constituents in American lignites
MORGAN, PJ		
	0180 227	Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
MORGAN, VT		
	0680 130	The electrification of operating powder chemical fire extinguishers
MORGAN, WC		
	0478 70	Stripping with scrapers and dozers
MORGAN, WD		
	0177 90	Coal processing technology, Volume 3
MORGAN, PED		
	0677 79	Conference on high temperature sciences related to open cycle, coal-fired MHD systems
MORGENSTERN, P		
	1082 81	Coal analysis by means of neutron-gamma activation analysis and x-ray techniques
MORI, A		
	0680 176	Flue gas treatment system for coal-fired power plants

MORI, K
0280 240 Relationship between coal characteristics and its reactivity on hydroliquefaction

MORI, S
0176 109 Single-stage, coal gasification reactor
0277 132 Fluidization theories and applications
0280 71 Bench scale ebullating bed-fluid dynamics
0280 72 Viscosity measurement of residual oil from H-coal process
0280 73 Reactivity of Kentucky 9 and 11 coals using a microautoclave
0280 90 Recovery of heavy coal-derived liquids by pressure fluid extraction
0281 66 Microautoclave study of liquefaction reactivities of a coal and of an extruded coal
0676 31 Fluidization technology, volume 1
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MORI, Y
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

MORIGUCHI, Y
0281 125 Efficient liquefaction of Australian brown coal with a hydrogen-donating solvent under atmospheric pressure

MORIMOTO, TE
1052 1 Laboratory tests of the cleaning of fine coal by a D.S.M. cyclone

MORITA, M
0279 150 Effect of hydrogen pressure on rate of direct coal liquefaction
0280 236 Kinetics of direct liquefaction of coal in the presence of Mo-Fe catalyst

MORITA, Y
0179 298 Steam-reforming of residual oils in the fluidized bed of nickel-dolomite catalyst

MORITZ, KH
0175 51 Integrated coking and gasification process

MORIYA, A
0180 266 High pressure steam gasification of coal

MORONI, EC
0279 207 Coal liquefaction with synthesis gas

MOROOKA, S
0278 143 Hydrodesulfurization of thiophene by coal mineral matter and a cobalt-molybdate catalyst in a pulse reactor

MOROONI, EC
0282 129 Disposable catalyst for coal liquefaction

MOROZOV, LL
0877 17 Economics of mineral and brown coal pipeline hydrotransport

MOROZOV, OA
0179 250 Reactivity of technical carbon

MOROZOV, OS
0379 73 Substance composition and thermogravimetric investigation of the classes of a coal charge
0679 134 On the thermal stability of primary tar

MORRELL, GR
0279 52 Fine-grained colliery discard and its susceptibility to liquefaction and flow under cyclic stress

MORRELL, JF
0477 93 Third Institute on Coal Mine Health and Safety

MORRIS, K
0679 20 Converting to coal firing

MORRIS, S
0281 351 Upgrading solvent-refined coal by hydrogenation

MORRIS, T
0177 256 Proceedings of the third annual underground coal conversion symposium

MORRIS, AE
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MORRIS, AH
0478 38 Exploitation of the in-seam miner and operational experience
0478 148 Cross measure drifting - equipment and techniques

MORRIS, CW
0478 195 Development of operational aids for improved dragline utilization, Volume 3, System manual for the dragline simulation model, Final Report
0478 196 Development of operational aids for improved dragline utilization, Volume 1, Final Report
0478 250 Development of operational aids for improved dragline utilization. Volume 2. System manual for the dragline display and information gathering system. Final report. Contractor - McDonnell Douglas Electronics Company

MORRIS, JC
0280 360 Coal constitution studies - analysis of the organic oxygen in Australian coals of hydroliquefaction potential

MORRIS, JE
1175 0 27th Canadian conference on coal

MORRIS, JG
0179 345 The relation between metallurgical microstructure and the resistance to hydrogen embrittlement in coal gasifier ferrous alloys

MORRIS, JP
0170 1 A survey of fuel and energy information sources
0172 7 Survey of coal availabilities by sulfur content
0173 12 Symposium papers, Clean fuels from coal
0179 143 Coal devolatilization studies in support of the Westinghouse fluidized-bed coal gasification process
0673 14 Coal gasification for clean power generation

MORRIS, JW
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0580 8 Environmental assessment of the SRC liquefaction process

MORRIS, LH
0478 132 Investigations into firedamp emissions with reference to the coal face

MORRIS, SC
0579 22 Coal-conversion technologies, some health and environmental effects
0580 18 The global carbon-dioxide problem: Impacts of U.S. synthetic fuel and coal fired electricity generating plants

MORRIS, SM
0279 232 Solid SRC - a building block
0281 141 Solid solvent refined coal - a building block

MORRIS, TA
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MORRIS, WJ
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MORRISH, JH
1175 0 27th Canadian conference on coal
1177 29 The 29th Canadian conference on coal

MORRISON, R
0580 0 Environmental and climatic impact of coal utilization

MORRISON, AL
1081 154 Reduction of hematite pellets with carbonized coal in a static bed

MORRISON, GF
0381 3 Chemical desulphurisation of coal
0580 76 Nitrogen oxide from coal combustion - abatement and control
0679 19 Conversion to coal and coal-oil firing

MORRISON, JS
0282 100 Exxon donor solvent plant: Design update

MORRISON, WE
0572 0 Total impacts of alternative energy systems

MORRISON, WW
0579 111 The long-term effects of trace elements emitted by energy conversion of lignite coal - Vol. I
0579 112 The long-term effects of trace elements emitted by energy conversion of lignite coal, Vol. II, Technical Appendices

MORROW, R
0680 130 The electrification of operating powder chemical fire extinguishers

MORROW, AJ
0678 19 A review of the PFBC Combined-cycle and its influence of gas-turbine design parameters

MORROW, PE
0676 16 Effects of trace contaminants from coal combustion. Proceedings of a workshop August 2 - 6, 1976, Knoxville, Tennessee

MORSE, JG
1179 56 Energy resources in Colorado: coal, oil shale, and uranium

MORSE, TS
1079 95 Metallurgical coal

MORSTIN, K
1077 10 Hydrogen in Coal: The feasibility of determination by neutron methods

MORTIMER, D
0680 131 Combustion problems associated with high chlorine coals
1079 158 A method of measuring the ash content of coal in moving wagons

MORTIMER, J
0180 214 Thermal behaviour of a supercritical gas extract of coal

MORTON, P
0476 29 Second Institute on Coal Mine Health and Safety

MORTON, RA
1178 17 National energy policy: A continuing assessment

MOSCHITTO, RD
0278 46 Operation of the Ft.-Lewis, Washington Solvent-Refined-Coal (SRC) pilot plant in the SRC I and SRC II processing modes

MOSCHOPEDIS, SE
0279 171 Some observations on the molecular 'nature' of petroleum asphaltenes
0280 23 Use of heavy oils (and derivatives) to process coal
0281 98 Use of synthesis gas in co-processing of coal-bitumen and derivatives
0281 122 Investigation in the use of heavy oils (and derivatives) to process coal
0281 172 Fractionation of oil sands bitumen and coal derived liquids
0282 16 Effects of process parameters on the liquefaction of coal using heavy oils and bitumens
0282 173 The co-processing of heavy oil and coal
0282 175 Liquefaction characteristics of Alberta subbituminous coals
1064 2 The reaction of diazonium salts with humic acids and coals: Evidence for activated methylene bridges in coals and humic acids
1080 1 Use of oil-sands bitumen and its derivatives as hydrogen donors to coal

MOSCOWITZ, CM
0579 109 Source Assessment: Dry bottom industrial boilers firing pulverized bituminous coal

MOSELEY, MG
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

MOSER, RE
0180 78 Coal Technology '80
0581 93 A comparison of the environmental impacts of FGD technologies

MOSES, H
0581 89 An update of the CO//2 issue - 1981

MOSES, K
0482 59 From Greenfield to new mine: a review of the policy issues and general planning processes
0482 78 New Mines - the way forward now

MOSES, RG
0378 78 Evaluation of the effects of coal cleaning on fugitive elements, final report

MOSIN, MK
0378 75 Classification of flotation tailings in hydrocyclones

MOSKALENKO, EM
0381 85 A study of the influence of physicochemical actions on the winnability, grade, enrichability and quality of coals

0476 8 Method for reducing gas and dust emission from a coal seam

MOSKOVSKIKH, VV
0279 142 Catalytic alkenylation of fluorene by allyl alcohol

MOSKOWITZ, S
0677 47 Pressurized fluidized-bed pilot plant for production of electric-power using high sulfur coal
0677 188 Pressurized fluidized-bed pilot electric plant
0679 98 Economic feasibility of pressurized fluidized-bed combustor power-plant
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MOSKOWITZ, PD
0579 22 Coal-conversion technologies, some health and environmental effects
0580 18 The global carbon-dioxide problem: Impacts of U.S. synthetic fuel and coal fired electricity generating plants

MOSKVIN, VI
1078 140 Influence of the geochemical environment on the quality of coals

MOSS, G
0180 103 Gasification of ash-containing solid fuels
0673 15 Sulfur retention in fluidized-beds of lime under reducing conditions
0673 25 The design, construction, and operation of the Abingdon fluidized-bed gasifier
0675 7 The desulfurization of fossil-fuels during combustion in fluidized-beds of lime particles
0676 32 Fluidization technology, volume 2

MOSS, R
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

MOSS, PO
0377 60 Dry separation of coal from pyrite and unwanted minerals: A comparison of crushing methods

MOSS, SH
0180 209 Coal gasification

MOSSBAUER, PF
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MOSSMAN, DJ
1071 2 Use of reflectance measurements on New-Zealand coals

MOSTINSKII, IL
0677 228 MHD A study of the processes resulting from the use of alkaline seed in natural-gas fired MHD facilities. U.S.-U.S.S.R. cooperative program in MHD power generation
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

MOSZYNSKI, M
1081 102 Properties of CSF, a fast inorganic scintillator in energy and time spectroscopy

MOTEK, OH
0380 178 Considerations on coal sludge drying, with special regard to aspects of safety

MOTLEY, E

0177 166 Catalytic conversion of coal energy to hydrogen, Project final report

MOTOVILOVA, LV
0278 193 Extraction of coals with active solvents in connection with their tendency to undergo reduction
0377 30 Influence of the conditions of vibromilling on the properties of coal oxidation products
1077 83 Investigation of coals by stepwise oxidation
1080 158 Influence of the form of binding of carbon, hydrogen, and oxygen in coals on their tendency to undergo reduction
1080 182 An investigation of coal fractions isolated by extraction with dimethylformamide

MOULIJN, JA
0181 254 Catalyst structure and mechanism in carbon gasification reactions: influence of preparation of the Ni and K catalysed hydrogenative and steam gasification

MOULSON, I
1081 14 Study of the relation between the phosphorus content of coal and coke

MOULTON, DS
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MOULTON, LK
0374 3 First Symposium on Mine and Preparation plant refuse disposal

MOURI, K
0680 21 Overall flue gas treatment technology from coal-fired power plants in Japan
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

MOWRER, DS
0482 72 Fire protection for coal-handling facilities

MOY, HC
0581 97 Converting to coal: the problem of ash disposal an urban environment (the ocean disposal option)

MOYER, R
0482 45 Strategic planning in coal

MOYER, CB
0577 6 Depositional Model for Facies of Waynesburg Coal, West Virginia

MOYNIHAN, DJ
0476 23 Second Symposium on Underground Mining

MOZA, AK
0680 53 The sticking temperature and adhesion force of slag droplets from four coals on oxidized mild steel
0681 53 Studies on slag deposit formation in pulverized coal combustors. 1. Results on the wetting and adherence of synthetic coal ash drops on steel
0682 2 Studies on slag deposit formation in pulverized-coal combustors. 3. Preliminary hypothesis for the sticking behaviour of slag drops on steels
1078 172 A mounting medium for coal particles
1079 177 Inorganic element analysis of coal particles using computer evaluation of scanning electron microscopy images

MOZA, A K
0681 54 Studies on slag deposit formation in pulverized coal combustors. 2. Results on the wetting and adhesion of

synthetic ash drops on different steel substrates

MOZHAEVA, VI
1081 176 Improvement in the adsorption properties of semicoke from the power-cum-technological processing of Kansk-achinsk brown coal

MOZUMDAR, BK
0879 22 Slurry transportation in pipelines -- a computer model for hydraulic backfilling systems

MRAW, SC
1081 215 Heat capacity and NMR studies of water in coal pores

MRISCIN, D
0180 78 Coal Technology '80

MROCHEK, JE
0281 181 Characterization of coal-solvent slurries and H-Coal PDU reactor effluent at high temperatures and pressures

MUAN, A
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

MUCCINI, GA
0274 0 A Comparison of a Coal Derived Crude Oil and Conventional Petroleum

MUCHMORE, CB
0381 112 Coal fines recovery and utilization
1081 196 Rheological and pumping characteristics of ethacoal

MUCHNIK, DA
1079 231 Some theoretical prerequisities for the testing and evaluation of the physicochemical properties of coke

MUCHNIK, SV
1078 138 Heat of sorption in a methane-coal system

MUEHLHAUSER, JW
0676 13 Development program for MHD direct coal-fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1975
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 42 Controlling nitrogen oxides (NOx) from a coal-fired MHD process
0680 61 Description of the DOE coal-fired MHD facility (CFFF)
0680 192 Description of the DOE MHD coal-fired flow facility (CFFF)

MUELA, CA
0178 272 Coal processing technology, Volume IV
0178 352 Treatment of coal gasification plant wastewater
0577 17 Treatment of Waste-water from coal gasification plants
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

MUELA, PA
0177 294 In-situ coal gasification: Status of technology and environmental impact

MUELLER, G
0778 25 Computations of synthetic seismograms for coal seams with the reflectivity method

0779 21 Approximate diffraction theory for transparent half-planes with application to seismic-wave diffraction at coal seams

MUELLER, JJ
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0278 65 Evaluation of materials for use in letdown-valves and coal-feed pumps for coal liquefaction service

MUELLER, JL
0282 168 Evaluation of materials for use in letdown valves in coal liquefaction systems - Final Report
0282 187 Evaluation of materials for use in letdown valves in coal liquefaction systems

MUELLER, MH
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MUELLER, PK
0580 0 Environmental and climatic impact of coal utilization

MUELLER, RO
1177 37 An evaluation of regional trends in power-plant siting and energy transport

MUELLER, WA
0478 179 Raising social working capacity through decrease in sickness and accidents
1080 141 Sewage sludge additive

MUELLER, WD
0173 52 Process for the manufacture of a gas interchangeable with natural-gas
0178 44 Synthetic-natural-gas from oil and coal

MUENGER, JR
0180 127 Production of ammonia synthesis gas from solid carbonaceous fuels

MUFFLER, LJ
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

MUHLHAUSER, HJ
0680 225 Technical and economic aspects of coal-fired district heating power plants in the United States

MUIR, WL
0976 0 Coal Exploration

MUKAI, K
1081 106 Modifying ability of QI-free coal-tar pitch to develop optical anistropy in co-carbonizations

MUKAIDA, H
0280 228 Effects of phenol on the properties of pitch produced thermally from the petroleum vacuum residue

MUKAIDA, K
0282 83 Analytical cleavage of diaryl ethers as models for asphaltene and preasphaltene structures

MUKERJEE, P
1071 3 Critical micelle concentrations of aqueous surfactant systems

MUKHERJEE, DK
0277 18 Kinetics and Mechanism of Hydrogenation of Coal
0277 80 Coking characteristics of heavy oil from coal hydrogenation - Comparison with petroleum
0280 244 Middle distillates by catalytic hydrogenation
0281 281 Catalytic liquefaction of coal
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
1078 117 Calcined coke from coal hydrogenates - Comparison with calcined petroleum coke
1079 61 Mechanistic study of hydrogenation of coal. 2.
1079 62 Mechanistic study of hydrogenation of coal. 1.

MUKHERJEE, SK
0277 18 Kinetics and Mechanism of Hydrogenation of Coal
0277 80 Coking characteristics of heavy oil from coal hydrogenation - Comparison with petroleum
0280 244 Middle distillates by catalytic hydrogenation
0480 213 Problems of mechanised roadway drivage underground with special reference to Dosco dintheaders
1078 117 Calcined coke from coal hydrogenates - Comparison with calcined petroleum coke
1079 61 Mechanistic study of hydrogenation of coal. 2.
1079 62 Mechanistic study of hydrogenation of coal. 1.
1181 46 Energy policy and planning in India

MULAY, LN
0181 162 Moessbauer and magnetic studies of bifunctional medium-pore zeolite-iron catalysts used in synthesis gas conversion

MULCAHEY, ME
0279 29 Description, calibration, and preliminary testing of the coal liquefaction heat-transfer coefficient measurement test unit

MULCAHEY, TP
0176 98 A study of the state-of-the-art of instrumentation for process control safety in large-scale coal gasification, liquefaction, and fluidized-bed combustion systems. Final report
0276 70 Coal liquefaction support studies. Annual report, October 1975 - September 1976
0279 29 Description, calibration, and preliminary testing of the coal liquefaction heat-transfer coefficient measurement test unit

MULCAHY, MJ
0178 413 Study toward the development of shaped charges in support of the University of California's Lawrence Livermore Laboratorys' in-situ coal gasification program - Final Report

MULCAHY, MFR
0678 228 The combustion of carbon

MULDER, DC
0681 106 Development of the Genesee power project

MULIK, PR
0177 209 Conversion of Rapid-City pilot-plant. Phase 1. Final Report, June - Dec. 1977
0181 3 Pulsed transport of bulk solids between adjacent fluidized beds
0181 251 Hot gas cleaning for advanced coal conversion technologies
0678 51 Utilization of coal-derived liquid fuels in a combustion turbine engine
0680 40 Gas turbine combustor performance on synthetic fuels

MULKEY, JR
0480 95 Effect of in-situ stresses on the stability of mine roof bolts

MULKEY, LA
0577 46 Sedimentation and erosion control implications for water quality management

MULLEN, C
0882 19 An examination of flexible pipe for slurry use

MULLEN, T
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

MULLER, D
1082 81 Coal analysis by means of neutron-gamma activation analysis and x-ray techniques

MULLER, H
1080 71 A note on the composition of jet

MULLER, WD
0178 67 SNG from coal and oil

MULLIGAN, MJ
1082 74 Differential-pulse voltammetry at the Hanging-Mercury-Drop electrode for identification of aromatic structures in coal extracts

MULLIN, WJ
1068 1 Mechanisms of coal pyrolysis VIII - The isothermal disengagement of carbon monoxide and methane in the range of 570-degrees-C to 670-degrees-C

MULLOWNEY, JF
0175 18 Coal conversion opportunities in Alberta

MULVIHILL, JW
0576 10 Ambient air quality assessment for the Synthane coal gasification pilot plant

MULY, EC
0677 164 An on-line particulate analyzer for fluidized-bed combustion systems

MUNCY, RJ
0576 35 Bibliography on potential effects on aquatic resources of processing and/or conversion of Iowa coal

MUNDELL, RL
0475 9 First Symposium on Underground Mining, Volume I
0477 45 Quantitating respirable dust-levels generated during longwall-mining operations

MUNDY, SC
0181 157 TVA ammonia from coal project: Update

MUNGEN, R
0182 65 An R&D program for UCG in bituminous coals
0182 80 An assessment of underground coal gasification in bituminous coals

MUNN, FJ
0479 255 The use of movement monitoring to minimize production losses due to pit slope failures

MUNRO, JM
1079 256 A characterization of the rheological properties of coal-fuel oil slurries

MUNZNER, H
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

MURA, G
0580 25 Influence of catalysts on SO//2 control in coal combustion with limestone
0679 21 Removal of sulfur during the combustion of coal by adding limestone

MURAKAMI, Y
0180 313 A feasibility study of manufacturing ultra-large pressure vessels for coal conversion application

MURALI, D
0278 123 Experimental investigation of the flotation of residue solids from liquefied coal

MURALIDHARA, HS
0178 272 Coal processing technology, Volume IV
0180 144 Reactivity correlation for the coal char - CO//2 reaction
0579 60 Possible utilization of waste streams from a conceptual coal conversion facility

MURATA, T
1081 110 Wettability of coal estimated from the contact angle

MURAWSKI, H
0777 7 Scanning electron microscopy (stereoscan) investigations for genetic interpretation of defects and joints in coal seams

MURCHISON, CB
0180 78 Coal Technology '80
0281 17 Use Syngas for olefin feedstock
0282 40 Upgrade F-T liquids to olefins and aromatics

MURDICK, DA
0281 17 Use Syngas for olefin feedstock

MURDOCH, P
0282 180 Investigation of the flash pyrolysis of some coals

MURDOCH, R
0164 13 The role of in-pore mass transport resistance in the reaction of porous solids with gases: The air oxidation of large tubes of graphite

MUROVETS, NA
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

MURPHREE, DL
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0677 248 Testing and evaluation of MHD materials and sub-structures. Annual technical progress report, July 1976 - June 1977

MURPHY, J
0482 79 Reinforced earth construction for coal storage

MURPHY, R
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

MURPHY, BL
0180 78 Coal Technology '80

MURPHY, CL

	0375 1	Drying of Lignite using nonaqueous solvents
MURPHY, JN		
	0479 70	Review of environmental monitoring systems in underground mines
MURPHY, MC		
	0781 23	Deep coal resources of the interior plains, estimated from petroleum borehole data
MURPHY, PD		
	0281 253	Fourier transform infrared and solid state carbon-13 nuclear magnetic resonance spectroscopic analyses of pyrolysed coal liquid asphaltene
	1079 247	A tenative identification of average aromatic ring size in an Iowa vitrain and a Virginia vitrain
MURPHY, WIR		
	0164 4	Physical structure of Green-River oil-shale
MURR, LE		
	0380 182	Desulfurization of coal by thiobacillus ferrooxidans
	0382 33	Coal desulfurization by leaching involving acidophilic and thermophilic microorganisms
MURRAY, C		
	0578 6	Environmental assessment of high-Btu gasification annual report
MURRAY, W		
	0580 112	Activities, effects and impacts of the coal fuel cycle for a 1,000-MWe electric power generating plant. Final Report
MURRAY, BA		
	0976 1	Coal inventory survey
MURRAY, DK		
	0477 48	Colorado coal analyses, 1975 (Analyses of 64 samples collected in 1975)
	0481 141	Methane from coal
	0778 14	Bibliography and index of publications related to coal in Colorado, 1972 - 1977
MURRAY, HH		
	0376 3	Second Symposium on Coal Preparation
	0377 45	Magnetic desulfurization of some Illinois basin coals
MURRAY, JR		
	0479 262	Design of coal slurry impoundments and the impact of MESA legislation
MURRAY, RH		
	0178 60	Case For ... Industrial fuel-gas from coal
MURRAY, TM		
	0381 117	A microprocessor-based control for a coal cleaning system
	0680 82	Application test burn of an emulsified coal/oil/water mixture
	0681 198	The development of a microprocessor-based system to analyze and control fossil fuel combustion
	0681 202	Combustion of water-oil-coal mixtures in a commercial-scale boiler
MURTHA, MJ		
	0377 35	Third Kentucky Coal Refuse Disposal and Utilization Seminar
	0579 66	Environmental significance of power plant fly ash
MURTHY, BN		
	0176 112	Gas cleanup systems for application to the MERC stirred/fixed-bed gasifier. Preliminary assessment and process

evaluation
0177 261 Fuel gas cleanup technology for coal gasification
0376 17 Feasibility of reducing fuel gas clean-up needs. Phase-1. Survey of the effect of gasification process conditions on the entrainment of impurities in the fuel gas
0377 19 Beneficiating Rosebed sub-bituminous coal

MURTHY, GR
0280 53 Separation of noscapine, papaverine and cryptopine from a crude mixture

MURTHY, KS
0676 32 Fluidization technology, volume 2
0677 165 Progress in EPA's fluidized-bed combustion environmental assessment and control technology development program

MURTHY, ML
0680 187 Near term commercialization of MHD power generation using coal/oil fuel

MUSAUS, MJ
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

MUSCHETT, FD
0577 55 Coal development in Montana: Economic and environmental impacts

MUSGROVE, C
0580 87 Reclamation improves with age

MUSGROVE, RE
0178 207 Considerations in sizing coal gasification plants, Final Report

MUSSCHOOT, A
0180 78 Coal Technology '80
0381 60 Vibrating feeders aid bulk handling

MUSTAFINA, SA
1080 126 Experience in the combined processing of feedstocks of coal and petroleum origin by the slow coking method

MUSTO, RL
0678 66 Coal firing of cement kilns
0679 142 Coal firing of cement kilns
1082 8 Correlation of reactivity and electrical resistivity of coke

MUSTOE, GE
0780 5 Kaolinite, smectite and k-rectorite in bentonites: relation to coal rank at Tulameen, British-Columbia

MUSYAL, SA
1080 107 A study of some coals of the Pechora Basin with respect to the parameters of the draft petrological-geochemical classification
1080 168 Analysis of the structure of the charge of byproduct coke works according to the parameters of a petrological-geochemical classification of coals

MUTCHLER, CK
0577 44 Predicting sediment yields

MUTER, RB
1073 9 Major and minor constituents in siliceous materials by atomic absorption-spectroscopy

MUTH, RJ
0478 142 Non-coal mineral producer and products liability

MUTSERS, SM
0676 31 Fluidization technology, volume 1

MUZIO, LJ
0281 299 Combustion and emission characteristics of coal-derived liquid fuels
0678 50 Small scale evaluation of the combustion and emission characteristics of SRC oil

MUZYCHUK, VD
0380 142 Effect of ash levels in run-of-mine coal on the quality, quantity and technical-economic operating indices of a washery
0779 30 Some characteristics of the change in the petrographic compostion of coals on enrichment and their practical utilization
1079 162 Production of coke from charges with the participation of noncaking and weakly caking coals
1080 117 The change in the properties of concentrates from Karaganda coals of different types according to separation densities

MY, T
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

MYCOCK, JC
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

MYCZKOWSKI, Z
0381 58 Investigations on the design and performance of large-volume mechanical-pneumatic flotation machines of the IZ-type

MYERS, D
0577 19 Advanced fossil-fuel and the environment - An executive report

MYERS, MB
0479 124 Fire-resistant fluids -- Their application in British mines

MYERSCOUGH, PS
0779 19 Geological problems associated with the Barnsley seam in the Doncaster area

MYLES, KM
0580 20 Hydration enhanced sulfation of limestone and dolomite in the fluidized-bed combustion of coal
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0680 237 Sorbent utilization prediction methodology: sulfur control in fluidized-bed combustors

MYRICK, DT
0680 98 DOE cost comparison study: industrial fluidized bed combustion vs. conventional coal technology

MYSAK, LP
0380 12 Coal as an energy source in recovery and upgrading of Canadian heavy oils and tar sands

MYSEIS, KJ
1071 3 Critical micelle concentrations of aqueous surfactant systems

MZYK, Z
1079 257 Coal-tar based polymers with naphthalene repeating units. Polynaphthoxazoles and partial ladder poly(imidazopyrrolones)

NAAR, RZ
0678 266 Studies for the stabilization of coal-oil slurries (COM)-Technical Progress Report for August-November, 1978

NABIVACH, VM
0179 322 Composition of phenolic effluent concentrate from coal gasification under pressure
0181 182 An investigation of the composition of the neutral fraction of the condensate from the detoxification of generator gas
1081 49 Analysis of pyridine bases isolated from a high-temperature coal tar by capillary gas chromatography
1081 54 Capillary gas chromatography of aromatic compounds

NACK, H
0176 95 Phase I summary report on a novel approach to coal gasification using chemically-incorporated catalysts
0177 90 Coal processing technology, Volume 3
0375 5 The Battelle hydrothermal coal process
0674 4 Power Plant utilization of coal - A Battelle Energy Program Report
0676 32 Fluidization technology, volume 2
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi-solids fluidized-bed combustion process
0677 165 Progress in EPA's fluidized-bed combustion environmental assessment and control technology development program
0677 197 Battelle's multi-solid fluidized-bed combustion (MS-FBC) process
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 93 Utilization of fluidized bed combustion for oil field steam generation

NACK, N
1177 16 Coal desulfurization by the Battelle hydrothermal coal process

NADKAMI, RM
0177 90 Coal processing technology, Volume 3

NADKARNI, RA
1080 9 Multitechnique multielemental analysis of coal and fly-ash
1082 77 Applications of hydride generation - atomic absorption spectrometry to coal analysis

NADKARNI, RM
0173 12 Symposium papers, Clean fuels from coal

NAGAI, H
0276 61 Synthetic coking coal

NAGARAJAN, V
0179 216 Thermodynamic predictions of the behavior of Fe-Cr-Al alloys in coal gasifier environments
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

NAGARVALA, PJ
1176 7 Regional energy system for the planning and optimization of national scenarios repons. Final report. Clean coal energy: Source-to-use economics project

NAGASHIMA, I
0178 211 Carbonization of coal in a continuous fluidized-bed

NAGATA, K
0880 16 Transporting and storing a fluidized mixed fuel

NAGELBERG, AS
0181 256 Chemical characterization of complex oxide products on titanium-enriched 310SS

NAGORNYI, VG
0679 165 The question of the interconnection of the reactivity of carbonaceous materials with their crystal structure
1080 163 Dimensional and structural changes of pyrocarbon on heat treatment

NAGY, J
0478 103 MESA'S views on mine explosion and fire research
0481 70 The explosion hazard in mining

NAHAS, NC
0172 23 Integrated catalytic gasification process
0175 48 Catalytic gasification of coal
0178 86 Catalytic gasification predevelopment research
0178 287 Exxon catalytic coal gasification process predevelopment program. Final project report
0180 122 Process for the production of an intermediate Btu gas

NAIL, JB
0677 248 Testing and evaluation of MHD materials and sub-structures. Annual technical progress report, July 1976 - June 1977

NAINIGER, JJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 171 Effect of thermal barrier coatings on the performance of steam and water-cooled gas-turbine/steam-turbine combined-cycle systems
0679 27 Gas-turbine critical research and advanced technology support project: FY 1978 annual report

NAKA, A
0380 93 Stabilized fuel slurry

NAKA, S
1079 25 Graphitization and sintering of coals under pressure

NAKABAYASHI, Y
0680 21 Overall flue gas treatment technology from coal-fired power plants in Japan
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2
0880 16 Transporting and storing a fluidized mixed fuel

NAKAKO, Y
0280 121 Coal liquefaction process and apparatus therefor

NAKAMA, H
1079 190 Carbonization behavior of coal briquettes
1081 67 Carbonization behaviour of coal briquettes in a slot-type oven

NAKAMURA, K
0676 32 Fluidization technology, volume 2

NAKAMURA, M
0279 136 Upgrading of residual oils by asphaltene conversion

NAKATA, T
0480 25 Technologies of deep mine safety under difficult conditions - spontaneous combustion and gas outburst-at Sumitomo-Akabira coal mine

NAKATA, Y
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0279 151 Hydrogenation reactivity of petrographic composition of coal
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
0282 185 Elucidation of structural and hydroliquefaction characteristics of Yallourn brown coal by carbon-13 CP/MAS nmr spectrometry

NAKATSUJI, Y
0279 40 Organic reactions in fused salts. Part XV. The hydrocracking of solvent-refined-coals over molten salt catalysts

NAKAYAMA, I
1082 6 Determination of bridgehead aromatic carbons in coal-derived materials

NAKLES, DV
0175 39 Influence of synthane gasifier conditions on effluent and product-gas production
0177 90 Coal processing technology, Volume 3
0177 304 Decomposition characteristics of phenol under synthane gasifier conditions
0178 230 Test plan for the environmental characterization of the bi-gas pilot-plant
0178 254 Significance of process variables on liquid-effluent production in coal gasification
0178 261 Characterization of effluent from the Bi-Gas pilot-plant
0178 308 Characterization of hydrogen-cyanide production in coal gasification
0180 78 Coal Technology '80
0578 68 Analysis of coal wastewater analytical methods: A case study of the hygas pilot-plant
1078 93 Characterization of effluents from the carbon-dioxide-acceptor coal gasification process

NANCARROW, PC
0677 109 Corrosion of an electrostatic precipitator in a municipal incinerator in Sydney, Australia, and some associated research work

NAND, S
0181 37 Steam gasification of lignite char
0181 232 Catalytic gasification of lignite char

NANDI, S
0175 29 Coal technology semiannual report
0175 42 Chemical Engineering Division, Coal technology semiannual report, January - June 1975
0175 57 Gasification of chars produced under simulated in-situ processing conditions, Quarterly report for the period July - September 1975
0276 70 Coal liquefaction support studies. Annual report, October 1975 - September 1976

NANDI, BN
0278 221 The effect of tin catalysts on hydrorefining of Athabasca oil sand bitumen and on coal hydrogenolysis
0281 36 Conversion of non-coking coals to coking coals by thermal hydrogenation
0282 174 The role of the water-gas shift reaction in the upgrading of low-grade oxidized coal from Western Canada for conversion processes
0380 65 Coking poor coking coals and hydrocracked tar sand bitumen binder
0681 192 Upgrading of inert-rich oxidized coal from western Canada with reducing gases to improve combustion performance
1077 63 The variation of the microhardness and reflectance of coal under conditions of oxidation simulating weathering
1081 55 C n.m.r. as a probe for the characterization of the low-temperature oxidation of coal

NANDI, SP
0179 48 Gasification tests of bituminous coal chars: Project 61023 Final report, August - December 1978
0179 315 Catalytic gasification of lignite chars

NANDI, SS

0680 17 Prediction of the burning rate of coal in fluidized-bed combustion

NANGIA, VK
0179 328 Materials for coal conversion and use, Volume II, Part I and II, final report on task 005
0180 220 Materials for coal conversion and use: Materials of construction for advanced power systems - Volume III
0180 299 Materials in coal conversion and use technologies
0679 43 Materials for coal conversion and use, Vol. I
0679 126 Materials of construction for atmospheric fluidized bed coal combustion

NANIS, L
0181 122 Electrolyte management for the coal air fuel cell

NANKERVIS, JC
0680 37 Phase changes in mineral matter of North-Dakota lignites caused by heating to 1200-degrees-C

NANSTAD, RK
0278 163 Assessment of materials technology of pressure vessels and piping for coal conversion systems

NAOUM, AA
0780 6 Sedimentology, geochemistry and structure of the Al-Tar area

NAPHTALI, LM
0178 217 The molten salt coal gasification process

NAPIER, BA
0181 218 Fluidized bed system

NAPIER, DH
0580 202 Proceedings of environmental effects of utilising more coal

NAPPA, L
0279 160 Results of the low-temperature destructive hydrogenation of a kerogen concentrate of the Estonian combustible shale kuckersite

NARA, Y
0680 183 New large capacity coal-fired boiler

NARAYAN, J
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

NARAYANA, PA
0278 20 Matrix Electron Nuclear Double Resonance Studies of the proton environment of the radical in natural and Solvent-Refined Coal

NARCISO, RR
1079 105 The use of gravity fractionation techniques for assessing slagging and fouling potential of coal-ash

NARDELLA, JA
0179 153 Fuel conversion and its environmental effects
0577 14 Environmental planning for ERDA's coal gasification technologies

NARITA, T
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

NARSIMHAN, G
0682 35 Analysis of a filter bag reactor for gaseous pollution abatement

NASH, TJ
0480 193 Methane utilization

NASH, WG
0479 231 Quick overview of groundwater con·rol in underground mining

NASH-WEBBER, JL
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

NASIATKA, TM
0463 0 Hydraulic coal mining research: Tests in a steeply pitching coalbed, Roslyn, Wash.

NASIR, P
0281 110 Bounds on the variation of K-value with various true boiling point fractions resulting from the pseudo-component approximation: Application to a H//2-coal liquid system
0281 235 Solubility of Hydrogen in 9-methylanthracene, dibenzofuran, and 2-ethylanthraquinone at high temperatures and pressures

NASLUND, JK
0181 219 Coal Technology '81, Vol. 4

NASTICH, M
1175 0 27th Canadian conference on coal

NATARAJAN, M
0681 190 Design of large coal-fired boilers for Canadian electric utilities an update

NATARAJAN, R
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

NATESAN, K
0176 86 Corrosion behavior of materials for coal gasification applications
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 151 Thermodynamic equilibriums of multicomponent gas mixtures
0177 155 Corrosion behavior of type 310 stainless steel in coal gasification environments
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0178 403 Corrosion problems in coal conversion processes
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 55 Corrosion behavior of metallic materials in the reducing environments characteristic of a coal-fired MHD generator
0180 138 Metallic corrosion in simulated low-Btu coal-gasification atmospheres
0180 182 Corrosion and mechanical behavior of materials for coal gasification applications

NATH, KC
0477 136 Design of water barrier for an underground mine
1079 111 Products of carbonization of coal in relation to certain structural parameters - a status report

NATUSCH, DF
0580 85 Resistance to photochemical decomposition of polycyclic aromatic hydrocarbons vapor-adsorbed on coal fly ash
0580 176 Environmental effects of western coal combustion: Part IV - Chemical and physical characteristics of coal fly ash
0581 27 Identification and quantitation of carbonate compounds in coal fly-ash
0581 46 Nonphotochemical decomposition of fluorene vapor-adsorbed on coal fly ash
0678 68 Theoretical consideration of the adsorption of polynuclear aromatic hydrocarbon vapor onto fly-ash in a

coal-fired power-plant
0682 8 Analysis of fly ash produced from combustion of refuse-derived fuel and coal mixtures
1080 7 Oxidative transformations of polycyclic aromatic hydrocarbons absorbed on coal fly ash

NAUDE, P
0281 53 South Africa's coal energy base with particular reference to synthetics

NAUDE, DP
0679 80 Potential of fluidized-bed combustion for industrial steam raising in South-Africa

NAUGHTON, MC
1179 62 A quantitative analysis of the impact of government regulations on the coal industry

NAUMAN, EB
0282 148 Reactions and residence time distributions in motionless mixers

NAUMOV, ME
0378 72 Use of detergents in coal flotation

NAUSHAHI, MK
0179 220 Gasification of coal

NAWROCKI, J
0381 58 Investigations on the design and performance of large-volume mechanical-pneumatic flotation machines of the IZ-type

NAWROCKI, MA
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

NAWROT, JR
0477 92 Fifth Symposium on Surface-mining and reclamation

NAYERA, M
0380 20 Removal of pyrite from coal by conditioning with thiobacillus ferrooxidans followed by oil agglomeration

NAYLOR, JD
0177 90 Coal processing technology, Volume 3

NAZARIO, FN
0282 100 Exxon donor solvent plant: Design update

NAZEM, FF
1080 139 Rheology of carbonaceous mesophase pitch

NAZEMI, A
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

NAZEMI, AH
0681 57 Advances in fluidized-bed combustion technology concepts, applications, pros & cons

NAZIMKO, VV
0480 198 Use of the method of finite elements to calculate the stresses and strains around a working preserved in caved rock

NC, LIM
0282 135 Determination of phenols in a coal liquefaction product by gas chromatography and combined gas chromatography/mass spectrometry

NEAL, J
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

NEAL, JE
0682 7 Replacing refractory linings in fired heaters

NEALL, GM
0477 56 A relationship between the ultimate compressive strength of cubes and cylinders for coal specimens
0478 27 Optimizing roof-truss installations with body-loaded photoelastic models

NEATE, CJ
0479 252 Influence of proximity of longwall mining on strata permeability and ground water

NEAVEL, RC
0182 56 Behaviour of calcium as a steam gasification catalyst
0275 0 Liquefaction of coal in hydrogen-donor and non-donor vehicles
0275 18 Coal plasticity mechanism: Inferences from liquefaction studies
0275 21 Treatment of coal by alkylation or acylation to increase liquid products from coal liquefaction
0280 1 Alkylation: A beneficial pretreatment for coal liquefaction
0280 18 Carbonization and liquid crystals (mesophase) development. 15. A common stage in mechanisms of coal liquefaction and of coal blends for coke making
0280 127 CO//2 pretreatment prevents calcium carbonate formation
0681 77 DTGA combustion of coals in the Exxon coal library
1079 33 Estimation of sulfur content in coal from titration of calorimeter bomb washings
1079 201 Coal structure and coal science: Overview and recommendations
1080 109 Technique to measure the temperature of agglomeration of coal ash
1080 225 Coal characterization research: sample selection, preparation, and analyses

NEBEN, EW
0178 117 Economic studies of coal gasification combined-cycle systems for electric-power generation
0278 78 Economics of advanced coal liquefaction
0278 151 Gasoline from coal

NEBGEN, JW
0476 22 Sixth Symposium on Coal Mine Drainage Research
0581 14 Inhibition of acid mine drainage formation: The role of insoluble iron compounds
0677 64 Evaluation of sulfate-bearing waste material from fluidized-bed combustion of coals for soil stabilization

NECHAEV, YA
1079 240 Thermal destruction of coal

NECHAEVA, GI
1079 240 Thermal destruction of coal

NECHAEVA, OV
0380 111 A feature of the molding of a coal charge
1080 215 Determination of hydroxyl groups in coals
1081 151 Experience of the use of the method of powder thermomechanics for investigating coals

NEDELKA, GT
0681 188 Coal Technology '81, Vol. 3

NEDOSHIVIN, YN
0278 190 Investigation of some coal liquefaction products by the NMR method
1077 109 A study by the ESR method of the interaction of the solid products of the pyrolysis of brown coals with

atmospheric oxygen

NEDOSPASOV, AV
0675 13 Thermophysical and electrophysical properties of combustion products with seed
0677 220 Composition and properties of working fluids in open-cycle magnetohydrodynamic generators. U.S. - U.S.S.R. cooperative program in MHD power generation

NEDOSPPASOV, VG
0677 149 Carbon-dioxide magnetohydrodynamic laser

NEEF, HJ
0179 267 Coal gasification with heat from high temperature reactors

NEFEDOV, AP
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

NEFEDOV, NP
0681 178 Optimization of the oxidation of the peat residue after hydrolysis

NEFF, G
1079 258 Novel approaches to a study of the fundamental organic chemistry of coal, Final report, September 1, 1977 - September 1, 1979

NEGAS, T
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
1076 8 Crystallization and vaporization studies on synthetic coal-slag compositions

NEGRINI, F
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

NEHRING, H
0480 33 Modern opencast mine surveying by use of photogrammetry

NEICAS, MG
1181 17 Coal supply south of the Sahara

NEIHOF, RA
0280 279 Microbial deterioration of hydocarbon fuels from oil shale, coal and petroleum. II. Growth and inhibition of bacteria and fungi

NEILL, JM
1177 17 The gas turbine HTGR plant with a binary cycle

NEILSON, HB
0374 2 Pretreatment of coal during transport

NEIMANN, K
1079 71 Studies in the chemical characterization of coal: reduction via solvated electrons

NEKHOROSHEV, RS
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

NEKRASOV, KD
1078 158 Thermal properties of a porous filler based on powdered Ekibastuz-coal-rock

NELEPOV, VF
0380 139 Hydrocyclones to remove sludge from coal fines

NELSON, J
1082 40 Integrated systems make HPLC behavior reliable, versatile

NELSON, AC
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky
1077 1 Preliminary evaluation of sulfur variability in low-sulfur-coals from selected mines

NELSON, CA
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

NELSON, ET
0378 54 Methodology for evaluating alternative designs of coal-preparation-plants

NELSON, HG
0178 56 Some studies on a solid-state sulfur-probe for coal gasification systems

NELSON, HW
0166 1 Study of costs of production and potential future markets

NELSON, JR
1080 100 Measurement of swelling of coals in organic liquids - A new approach

NELSON, RE
0477 183 Braking system problems off-highway vehicles

NELSON, RM
0677 120 Coal slag effects in MHD generators
0677 254 Electrical behavior of slag coatings in coal-fired MHD generators

NELSON, SG
0180 78 Coal Technology '80

NELSON, SO
0381 93 Selective magnetic enhancement of pyrite in coal by dielectric heating at 27 and 2450 MHz
1080 177 Frequency dependence of the dielectric properties of coal
1080 178 Dielectric heating of mixtures containing coal and pyrite

NEMANICH, EJ
0181 219 Coal Technology '81, Vol. 4

NEMES, I
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal

NEMETH, A
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal

NEMETH, J
0676 32 Fluidization technology, volume 2

NEMETH, EJ
0181 252 Desulfurization of hot coal-derived gas by calcined dolomite

NEMETS, Y
0180 283 Pyrolysis of coal in a plasma

NEMIROVSKII, YV
0477 63 The stressed-state in an undisturbed rock-mass with schistosity and curvature of the beds
0478 171 State of stress in undisturbed stratified rocks with steeply dipping strata of various thicknesses
0478 303 Concerning abutment pressure in the vicinity of a horizontal working

NENE, R
0178 272 Coal processing technology, Volume IV

NEPHEW, EA
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

NESBIT, W
0582 31 Scrubbers: the technology nobody wanted
0682 18 Japanese challenge in coal combustion technology

NESBIT, RE
0479 229 MSHA looks at dust control in longwall mining

NESBITT, JB
0474 3 Fifth Symposium on Coal Mine Drainage Research

NESBITT, PD
0579 103 Design criteria for sediment ponds

NESHIN, YI
0681 121 A thermochemical investigation of the low-temperature oxidation of heat-treated coals
1081 116 Influence of water on the tendency of heat-treated brown coals to undergo oxidation

NESKORA, DR
0179 141 Coal science: Basic research opportunities
0282 159 Liquefaction of carbonous material with vapour phase hydrogen donor solvents

NESMASHNYI, LA
1080 212 Purification of coal tar in an electric field

NESNOV, AS
0380 180 Regulating magnetite suspension viscosity in heavy-medium separators

NESS, N
0678 188 Fluidized-bed flow equations

NESS, DD
0581 80 Handling of combustion and emission-abatement wastes from coal-fired power plants: Implications for fish and wildlife resources

NESS, HM
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II
0677 56 Technology and use of lignite

NESTERENKO, LL

0679 131 Substance composition and optical properties of the products of the thermal degradation of low-rank coals of the Donets basin
1080 172 The mechanism of the thermochemical transformations of coals

NESVACIL, VR
0480 127 Multi-leg hole successfully drilled for degasification

NETO, JN
0976 0 Coal Exploration

NETTLETON, MA
0579 59 Particulate formation in power station boiler furnaces

NETZER, D
0177 26 Ammonia from coal
0179 137 2-gasifiers improve SNG plant
0179 248 Fuel gas by Fluor-combination coal gasification
0179 355 SNG by Fluor - combination coal gasification
0180 125 Process for the manufacture of fuel gas
0180 176 FGD good with coal conversion

NEUFELD, LF
1064 1 Mechanisms of coal pyrolysis VI - Reaction patterns in the range 650-degrees to 850-degrees-C

NEUFELD, RD
0177 145 Treatability studies of condensate water from synthane coal gasification
0178 26 Ozonation of coal gasification plant wastewater
0178 400 Biokinetics of activated sludge treatment of synthane fluidized bed gasification wastewaters
0181 107 Thiocyanate bio-oxidation kinetics
0577 59 Preliminary evaluation of the use of powdered coal as a natural-gas substitute for sewage sludge incineration. Final report, June - November 1977
0578 85 Preliminary evaluation of PETC-coal conversion solid and hazardous wastes, Progress report for September 1977 - September 1978
0579 62 Final evaluation of petc coal conversion solid and hazardous wastes. Final Report, September 15, 1977-November 30, 1979
0580 195 Laboratory leaching of coal conversion solid wastes - Progress Report, November 1, 1979-January 31, 1980
0581 77 Bio-oxidation of thiocyanates typical of coal conversion effluents - Final report

NEUHART, FJ
0177 209 Conversion of Rapid-City pilot-plant. Phase 1. Final Report, June - Dec. 1977

NEUMANN, R
0177 256 Proceedings of the third annual underground coal conversion symposium

NEUMANN, AW
1082 26 Determination of specific heats of coal powders by differential scanning calorimetry

NEUSCHUTZ, D
0681 138 Development of a melt-down proces with combined direct reduction using any type of fine coal

NEUWORTH, M
0280 344 The Impact of developing technology on indirect liquefaction

NEUWORTH, MB
0176 68 Coal conversion and utilization, 1976 technical report
0281 149 The impact of developing technology on indirect liquefaction
0282 46 An assessment of disposable catalysts based on iron sulfides

1062 0 Low temperature deploymerization of bituminous coal
1064 3 Chemical identification of methylene bridges in bituminous coal

NEUZIL, RW
1080 176 An energy-saving separation scheme

NEVET, RM
1079 206 Influence of the properties of a gaseous reagent of the dependence of the pre-exponential factor of the arrhenius equation as a function of the activation energy in the reaction of fibrous carbonaceous materials

NEVILLE, M
0680 178 Laboratory studies of mineral matter vaporization during coal combustion
0681 49 Vaporization and condensation of mineral matter during pulverized coal combustion

NEVILLE, JM
0380 2 Coal pretreatment - extensions of flowtran to model solids-handling equipment

NEWBY, RA
0178 29 State-of-the-art for a high temperature sulfur removal system for fluidized-bed coal gasification
0179 326 Chemically active fluid bed for SOx control, Volume 1, process evaluation studies
0181 3 Pulsed transport of bulk solids between adjacent fluidized beds
0277 132 Fluidization theories and applications
0580 163 Fluid-bed combustion and gasification solids disposal
0673 22 Fluidized-bed oil gasification for clean power generation - Atmospheric and pressurized operation
0676 32 Fluidization technology, volume 2
0677 177 Optimizing sorbent utilization in once-through atmospheric pressure fluidized-bed combustion
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes
0678 23 Circulating-bed boiler concepts for steam and power generation
0680 43 A thermogravimetric study of the sulfation of limestone and dolomite - prediction of pressurized and atmospheric fluidized-bed desulfurization
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

NEWITT, J
0277 107 Issues relative to the development and commercialization of a coal-derived synthetic liquids industry. Management Issues, Volume III-2. Analysis of localized social impacts of coal liquefaction plants. Final report, January 1975 - December 1976

NEWMAN, JO
0276 46 Coagulation and filtration of solids from liquefied coal of synthoil process
0276 94 Chromatographic and spectrometric investigation of a light oil produced by the synthoil process
0279 183 The formation of BTX by the hydropyrolysis of coals
0280 206 The hydropyrolysis of coal to BTX
0280 247 The hydropyrolysis of coal
0280 294 The thermal cracking of coal-derived materials
0281 245 The thermal cracking of coal-derived materials
0281 324 Gas phase coal extraction
0282 138 Coal extract processing
0678 244 BTX by coal pyrolysis in hydrogen
0680 39 Light aromatics from the hydropyrolysis of coal
1080 152 A review of the vapour phase cracking of coal-derived materials and some model compounds to BTX
1081 57 Thermal cracking of coal-derived materials to BTX and ethylene

NEWMAN, KR
0780 16 Stratigraphic and structural aspects of coal in upper Cretaceous Menefee and Fruitland formations at Durango,

Colorado

NEWMAN, SA
0281 294 Correlations evaluated for coal-tar liquids

NEWTON, GJ
0580 199 Chemical characterization of polynuclear aromatic hydrocarbons in airborne effluents from an experimental fluidized bed combustor
0678 85 Mineral characterization of fluidized-bed combustion aerosol ash - Montana rosebud sub-bituminous coal
0680 83 Respirable aerosols from fluidized bed coal combustion - 1 Sampling methodology for an 18-inch experimental fluidized bed coal combustor
0680 84 Respirable aerosols from fluidized bed coal combustion - 2. Physical characteristics of fly-ash
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

NEWTON, JD
0677 103 An analysis of thermal fatigue crack growth in 2.25% Cr 1% Mo steel superheater tubes caused by on load water deslagging

NEWTON, JG
0577 1 Water and Related Problems in Coal-mine areas of Alabama

NEWTON, RJ
0278 101 Feedstocks from coal: How? When?

NG, L
1079 89 Incorporation of elemental sulfur in coal as organic sulfur

NG, N
1082 16 Co-carbonization of fractions of solvent-refined coal with a non-coking coal

NGAN, DY
0179 304 Rates of light gas production by devolatilization of coals and lignite

NGO, VN
0381 63 Determination of the ash content of coal using annihilation radiation

NGUYEN, Q
0282 24 Coal conversion in aqueous systems

NGUYEN, HV
0676 32 Fluidization technology, volume 2

NGUYEN, TH
0676 31 Fluidization technology, volume 1

NGUYEN, XT
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 31 Fluidization technology, volume 1

NGUYEN, YV
0381 101 Froth flotation studies on an eastern US coal
0381 114 Pilot plant study of the spherical agglomeration process
0581 95 Coal cleaning for control of emissions

NICE, LL
1073 9 Major and minor constituents in siliceous materials by atomic absorption-spectroscopy

NICHOLAS, DM
0180 230 Hydrogen sulfide concentrator for acid gas removal systems

NICHOLAS, PJ
0480 210 Effects of topsoil thickness and nitrogen fertilizer on the revegetation of coal mine spoils

NICHOLLS, J
0178 39 Unconventional gas supply options
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

NICHOLLS, PJ
0479 155 Supporting equipment for full-face and other rapid tunnelling systems

NICHOLS, CL
0781 25 Seam and location differentiation of coal specimens using trace element concentrations

NICHOLS, DC
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

NICHOLS, DE
0177 96 Evaluation of intermediate-Btu-coal gasification systems for retrofitting power plants

NICHOLS, DG
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0576 9 An environmental analysis technique for coal conversion process studies
0579 113 Pollutants from synthetic fuels production: Coal gasification screening test results
0580 201 Analysis and assessment of PAH from coal combustion and gasification

NICHOLS, GB
0678 52 Evaluation of electrostatic precipitator during SRC combustion tests

NICHOLS, RS
0482 105 Water drainage through waste dumps at Fording Coal Limited

NICHOLSON, D
0479 237 Evaluation of escape routes

NICHOLSON, AF
0280 10 Methanol from coal: cost projections to 1990
0478 79 Market-based analysis of sulfur removal strategies for Kentucky-coals

NICHOLSON, EW
0177 297 Production economics for hydrogen, ammonia and methanol during the 1980 - 2000 period
1177 12 Storage of off-peak thermal energy in oil

NICHOLSON, JT
0879 20 Vertical pneumatic transport of coal

NICHOLSON, RA
0477 107 The Hanginghill farm (1970) borehole, south Derbyshire coalfield

NICKEL, PE
0478 75 Economic Impact and linkages of the Canadian Mining Industry

NICKESON, F
0380 119 Optional circuits adapt plant to coal

NICKESON, FH
0378 30 Modular coal washing plant has built in versatility
0380 42 K & R fights Ohio market odds
0480 151 Flexible cable takes the crimp out of longwall mining
1081 194 Petrography: the science of coal marketing

NICKEY, RA
0476 2 Design and evaluation of improved surface coal mine overburden handling and coal extraction techniques

NICKHOLS, L
0680 1 Low NO//x heavy fuel combustor program

NICKS, D
0676 31 Fluidization technology, volume 1

NICOL, SK
0277 85 Some fundamental aspects of the selective agglomeration of fine coal
0377 13 Effect of Agitation on Quality of selectively agglomerated fine coal
0378 53 Influence of feed size distribution on the staged flotation of poorly floating coals
0379 20 Pilot-scale treatment of coal preparation plant effluent by the selective agglomeration process
0379 51 Flotation circuits for poorly floating coals
0380 43 Oil-assisted filtration of fine coal
0380 95 Treatment of coal slurries
0381 51 The influence of humic materials on the flotation of coal
0381 113 Circuit design considerations for the froth flotation of problem coals
0382 31 A modified laboratory cell for the flotation of coal
0678 243 Convenient index for the assessment of coal-cleaning processes

NICOLE, D
0282 146 Performance indices for coal liquefaction solvents

NIEDZWIECKI, RW
0679 27 Gas-turbine critical research and advanced technology support project: FY 1978 annual report
0680 1 Low NO//x heavy fuel combustor program

NIELSEN, EL
0678 227 Use of oil-shale for control of sulfur-dioxide emissions from the combustion of coal

NIELSEN, GF
0478 71 1978 Keystone Coal Industry Manual
0482 22 Robust mine growth forecasted
0981 2 New coal capacity surges ahead

NIELSON, GI
0164 8 Countercurrent combustion: A process for retorting oil-shale

NIELSON, KK
0579 28 Characterization and formation of submicron particles in coal-fired plants
1080 39 Volatility of fly ash and coal

NIELSSON, GE
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

NIEMANN, K

1079 49 Studies in the chemical characterization of coal: reduction
1082 23 Chemical characterization of coal. 3. Qualitative and quantitative aspects of the reductive methylation of coal

NIEMANTSVERDRIET, JW
0281 311 On the time-dependent behavior of iron catalysts in Fischer-Tropsch synthesis

NIEMCZYK, TM
0179 103 Hydrologic and environmental findings: San Juan UCC site
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

NIEMEYER, EV
1178 17 National energy policy: A continuing assessment

NIENOW, AW
0678 115 Mixing and segregation of a small proportion of large particles in gas fluidized-beds of considerably smaller ones

NIEWIARA, M
0581 88 Method for treatment of industrial waste from high-temperature coal gasification

NIGAWARA, S
0680 186 Digital control system for coal-fired power plants

NIHART, RK
0580 109 Mechanisms of nitrogen oxide (NO//x) formation and control: Alternative and and petroleum-derived liquid fuels

NIIMI, H
0281 116 Fuel compositions comprising coal-liquid fuel mixture

NIJS, H
0281 89 CO desorption from supported ruthenium catalysts

NIJS, HH
0178 130 Carbon monoxide hydrogenation over ruthenium zeolites
0280 214 Characterization of reduced natural garnierite and its catalytic activity for carbon-monoxide hydrogenation
0281 69 On-line single run analysis of effluents from a Fischer-Tropsch Reactor

NIKANOROVA, LP
0178 390 Modern methods of obtaining hydrogen
0179 240 Production of methanol from coal

NIKIFOROVA, TS
0278 190 Investigation of some coal liquefaction products by the NMR method
0278 191 Study of the components of a liquid-phase hydrogenation of IRSHA-Borodino coal by IR spectroscopy
0278 192 Chemical composition of coal liquefaction products
0278 211 Influence of the drying of a coal in vortex chambers on the technological properties of the coal for hydrogenation

NIKITIN, IN
0379 65 Commercial trials of the selective-flocculation process for cleaning coal slurries
0379 113 Improved dewatering of fine coal concentrate
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

NIKITIN, KN
0680 199 The role of the iron-containing components in the formation of the steady-state potential of coals

NIKITINA, LM
0878 48 Experimental study of moisture transfer in bulk coal subject to freezing

NIKITINA, TV
0178 371 Gasification of coals in a fluidized bed under pressure in a steam oxygen jet
0181 135 The use of technological gas for the production of methanol
0181 141 Production of synthetic natural gas from coals

NIKOLAEV, AM
0280 132 Method for heat processing of pulverized brown-coal
0280 139 Heat processing of pulverized carboniferous material

NIKOLAEVA, VA
0163 1 Underground processing of fuels
1081 176 Improvement in the adsorption properties of semicoke from the power-cum-technological processing of Kansk-achinsk brown coal

NIKOLASHIN, AV
1079 156 Study of coal and nonvolatile mobile liquid products of its thermal transformations

NIKOLOV, R
1080 106 Use of HPLC in fractionation of lignite humic substances

NIKOLS, D
0382 10 Planning for coal beneficiation

NIKONOROVA, LP
0377 16 Mechanochemistry of coals

NILSSON, D
0477 138 Open-pit or underground mining

NILSSON, NG
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

NILSSON, PA
0680 221 Baghouse installation on pulverized coal-fired boilers burning low-sulfur eastern coals at Michigan State University

NIMERICK, KH
0380 29 New method of oxidized coal flotation
0382 9 Four methods to raise plant output
0879 4 In-transit wind erosion losses of coal and method of control
0879 5 Freeze conditioning frozen coal to ease handling and unloading problems

NIMSICK, LT
1175 0 27th Canadian conference on coal

NISHI, T
0681 222 Coal blending theory - retrospect and prospect
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives

NISHIDA, N
0280 40 Qualitative and quantitative assessment of reaction models of coal hydrogenation

NISHIDA, S

1073 2 Reactions of coal with nitrogen/hydrogen mixtures in a discharge
1073 3 Reactions of coal with discharge-generated (excited) nitrogen species

NISHINO, T
0181 116 Effects of catalysis and composition of inlet gas on gasification of carbon and coal

NISHIOKA, K
1078 30 Influence of non-coking-coal on the quality of metallurgical-coke

NISHIYAMA, Y
0178 13 Hydrogasification of liquid ammonia-treated coals - comparison of several Japanese coals
0178 168 Gasification of coals treated with nonaqueous solvents. 2. Effect of liquid ammonia treatment of gasification with hydrogen
0178 169 Gasification of coals treated with nonaqueous solvents. 3. Swelling behaviour of a single coal particle
0179 144 Gasification of coals treated with non-aqueous solvents. 4: Reactivity of coals treated with liquid-ammonia

NISHIZAKI, H
0676 32 Fluidization technology, volume 2

NISLICK, AS
0182 34 Chemicals and aromatics production from coal

NITSCHKE, E
0179 260 Coal conversion via the Rheinbraun HTW process

NIXON, DW
0481 118 Pump packing developments at Hem Heath Colliery
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

NIZOVA, SA
0278 187 Hydrogenation of oligomers of dihydric phenols

NOBE, T
0281 116 Fuel compositions comprising coal-liquid fuel mixture

NOBILING, R
1081 99 Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe

NOBLE, G
0581 82 Coal handling and the air pollution confusion

NOBLETT, JG
0578 92 Water recycle/reuse alternatives in coal-fired steam-electric power-plants: Volume I. Plant studies and general implementation plants

NOCETI, RP
0278 107 Viscosity of coal derived liquids
1080 36 Coal-derived asphaltenes: effect of phenol content and molecular weight on viscosity of solutions

NOCK, M
0476 21 Fourth Symposium on surface-mining and reclamation

NOGUCHI, N
0681 147 Operation of coke oven with coal preheated by precarbon system

NOIR, D

0180 270 Control method for the combustion of coal gas in industrial furnaces

NOLAN, JT
0180 95 Coal gasification method of feeding dry coal
0580 57 Office for informational services and technical liaison
0681 101 A laboratory study of the thermal behaviour of coal minerals

NOLDE, W
0179 40 Water treatment needed in gasification

NOLES, GT
0278 81 Effects of mineral matter on the hydroliquefaction of coal
0278 91 Sandia fossil-fuel analytical laboratory: Procedures used in coal liquefaction analyses
0278 95 Hydrogen consumption in non-catalyzed coal liquefaction

NOLL, KE
0679 95 Evaluation of performance data from fabric filter collectors on coal-fired boilers

NOLL, WL
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

NOLTIMIER, HC
1078 82 Anisotropy of magnetic susceptibility measurements as a coal banding-plane indicator

NOMURA, M
0279 40 Organic reactions in fused salts. Part XV. The hydrocracking of solvent-refined-coals over molten salt catalysts
0280 22 Improved method to alkylate Yubari coal of Japan using molten potassium under refluxing THF
0282 4 Hydrogenation of Yubari coal coated wth ZnCl//2-MCl//n(CuCl, CrCl//3, and MoCl//5) catalyst melts
0282 9 Catalytic activities of binary molten salts composed of ZnCl//2 and metal chlorides for hydrocracking of phenanthrene
0282 58 Effects of petrographic constituents in three Yallourn brown coal lithotypes on hydroliquefaction processes

NONGBRI, G
0276 35 The role of solvent in the solvent-refined-coal process
0277 50 Solvent-refining of West-Kentucky 9-14 coal
0278 64 Solvent-refining of Indiana-V-coal and North-Dakota-lignite
0281 352 Hydrotreatment of COGAS pyrolysis oil via the H-oil process

NOONE, M
0676 38 CDIF-MHD generator system conceptual design - final report. Section 1, Analysis

NOONER, DW
0178 135 Synthesis of fatty acids by a closed system Fischer-Tropsch process

NOOTOMI, A
0681 188 Coal Technology '81, Vol. 3

NORCROSS, DW
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

NORCROSS, WR
0677 184 Industrial application of fluidized-bed combustion
0679 102 Fluidized-bed industrial boiler
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 207 Fluidized bed combustion meeting energy needs of the future

NORDON, P
0879 6 Model for the self-heating reaction of coal and char
1078 102 Method for determining the rate of oxygen sorption by coals and chars at low temperatures
1079 36 Rate of oxidation of char and coal in relation to their tendency to self-heat

NORMAN, RS
0476 23 Second Symposium on Underground Mining

NORO, T
0179 298 Steam-reforming of residual oils in the fluidized bed of nickel-dolomite catalyst

NORRIS, M
0882 62 Canada's coal can be delivered

NORRIS, DW
0380 38 Use of pressure filter to eliminate refuse slurry disposal pond

NORTH, GR
0580 0 Environmental and climatic impact of coal utilization

NORTHAM, DB
0179 223 Coal gasification in steam at very high-temperatures

NORTHARD, JH
0477 30 Transport of men and materials: The problems - some solutions and new concepts.
0479 118 Trackless transport

NORTHCOTE, CS
0480 9 Opencast coal mining at Kriel colliery

NORTHCUTT, KJ
0680 241 Chemical species in fly ash from coal-burning power plants

NORTHROP, DA
0177 158 Instrumentation and process control development for in-situ coal gasification
0177 163 Instrumentation for in-situ coal gasification: An assessment of techniques evaluated on the Hanna II experiment
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 71 Instrumentation for in-situ coal gasification -- 1. Background and overview
0178 80 Instrumentation development for in-situ coal gasification
0178 279 Instrumentation for in-situ coal gasification. 3. Electrical techniques for remote monitoring
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 206 Instrumentation for in-situ coal gasification - 4. Seismic and acoustic techniques for remote monitoring

NORTON, J
1174 6 Workshop on fundamental research in homogeneous catalysis as related to U.S. energy problems

NORTON, RC
0678 143 Conceptual design for an atmospheric fluidized-bed direct combustion power generating plant. Phase I. Commercial-Plant conceptual design. Annual report, January 1978

NORTON, RV
0380 82 Fuel composition comprising a coal-oil slurry

NORTON, WW
0180 78 Coal Technology '80

NOSOV, RE
0380 139 Hydrocyclones to remove sludge from coal fines

NOSYREV, IE
1080 164 Electronic reduction of coal by alkali metals
1080 188 The reductive depolymerization of coal
1081 192 Gel permeation chromatography of coal extracts

NOTARY, A
0579 103 Design criteria for sediment ponds

NOUR, E
0180 199 Gasification of residual materials from coal liquefaction, Type IV sustained pilot plant evaluation of SRC-II vacuum flash drum bottoms from Powhatan coal

NOVAK, AE
0178 277 Parametric analysis of pollutant migration following in-situ gasification of lignite

NOVAK, YV
0179 307 A study of the processes of the thermal and gas-thermal refining of imperfect carbon phases

NOVAKOVSKII, EM
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin
1078 154 Study of the composition of the acid part of refined brown-coal wax

NOVIDOVA, NN
1079 132 Determining the nitrogen content in nitride-containing materials

NOVIKOVA, HN
1079 155 Production of alumina concentrates from kaolinite-containing coal wastes

NOVITSKII, NV
0680 117 Determination of Al//2O//3 in the ashes and slags from solid fuels by differential photometry
0680 217 An investigation of the tendency to undergo spontaneous combustion of coals of new deposits of the Kuzbass

NOVOSADOV, VB
0676 23 Errors of measurement of plasma temperature in MHD generator channels

NOVOTNY, M
1080 193 The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979
1081 19 Compositional studies of coal tar by capillary gas chromatography/mass spectrometry

NOVOTNY, P
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

NOWACK, CJ
0177 90 Coal processing technology, Volume 3

NOWACKI, P
0680 236 Lignite technology

NOWAK, F

0677 107 Corrosion on refuse incineration boilers, preventive measures

NOWOWIEJSKI, G
0281 212 Co-cracking of ethane and naphtha in millisecond pyrolysis furnaces

NOYES, R
1178 11 Coal resources, characteristics and ownership in the United-States of America, Washington, D.C.

NOZAKI, K
0681 186 Process for the combustion of coal in the presence of calcium-containing material (Reducing SO//2 emission)

NSAKALA, NY
0177 69 Studies on coal reactivity: Kinetics of lignite pyrolysis in nitrogen at 808-degrees-C.
0282 167 Effect of liquefaction processing conditions on combustion characteristics of solvent refined coal - Interim Report
1077 74 Characteristics of chars produced by pyrolysis following rapid heating of pulverized coal, Technical report 2

NUEMANN, KLK
0178 61 Investigation into the thermodynamics of coal gasification

NUGENT, JE
0181 223 Technology and use of lignite, Vol. 1 and 2

NULL, LG
0882 49 Plunger flush system

NUNES, FF
0178 272 Coal processing technology, Volume IV
0678 134 High-temperature fluidization and agglomeration characteristics of limestone and coal-ash particle systems
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978

NUNN, EB
0180 217 Analytical procedures used in characterization of knockout-pot condensates from the Pricetown I underground gasification
0180 218 Characterization of Pricetown I underground gasification knockout pot condensates

NUNN, JW
0479 44 Hydraulic drilling equipment

NUTKIS, MS
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0673 26 Design of fluidized-bed miniplant
0676 32 Fluidization technology, volume 2
0677 115 Hot corrosion/erosion materials program and experience in the pressurized fluidized-bed coal combustion miniplant
0677 162 Pressurized FBC studies I. Combustion
0677 166 A program for hot corrosion/erosion materials testing for application to fluidized-bed coal combustion
0677 255 Studies of the pressurized-fluidized-bed coal combustion process
0679 151 Hot corrosion/erosion testing of materials for application to advanced power conversion systems using coal-derived fuels - Task II - Fluidized-bed combustion
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

NUTT, M
1182 9 The Pacific rim coal trade outlook

NUTTALL, HE
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 103 Hydrologic and environmental findings: San Juan UCC site
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0180 257 A combined fracture/porous media model for contaminant transport

NWANGWU, U
0777 15 Deltaic and interdeltaic stratigraphy and sedimentology of the Fox-Hills and associated formations in the central front

NYSSEN, GA
0374 0 Coal utilization symposium - Focus on SO//2 emission control

O'BRIEN, E
0380 109 Fine coal cleaning in the 28 x 0 fraction - a technical overview

O'BRIEN, R
0381 62 Dust control for coal handling: Design considerations and solutions

O'BRIEN, KM
0878 12 Tenn-Tom plans 87-percent coal traffic, 1986 completion

O'BRIEN, TJ
0180 216 Effects of several trace contaminants on fuel cell performance

O'BRIEN, WJ
0178 260 A summary of the geology at the underground coal gasification site, Pricetown, West-Virginia

O'BRIEN, WS
0173 7 Comparison of alternate coal gasification processes for pipeline-gas production
0173 36 Production of low-Btu-gas involving coal pyrolysis and gasification
0474 3 Fifth Symposium on Coal Mine Drainage Research

O'CONNELL, JP
0281 250 Molecular thermodynamics of liquids containing supercritical compounds

O'CONNOR, D
0679 201 Study of corrosion and erosion of fluid bed coal combustor boiler tubes - report on Phase I

O'CONNOR, AJ
1178 22 Future of coal in New-Brunswick depends on reasonable regulations

O'CONNOR, KO
0477 163 Subsidence monitoring systems for undermined areas. Final technical report. Woodward-Clyde Consultants

O'CONNOR, MJ
0180 78 Coal Technology '80
0477 112 Coal mining activity in district 3

O'DONNELL, C
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

O'DONNELL, K
0681 189 Coal Technology '81, Vol. 5

O'DONNELL, HJ
0173 35 Devolatilization of coal by rapid heating

O'DONNELL, HW
0182 61 Horizontal drilling for underground coal gasification

O'DONOVAN, JD
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

O'DOWD, W
0281 202 Thermal dispersion and heat transfer in nonisothermal bubble columns

O'FALLON, NM
0176 98 A study of the state-of-the-art of instrumentation for process control safety in large-scale coal gasification, liquefaction, and fluidized-bed combustion systems. Final report
0177 199 Review of the state of the art of flow and analysis instruments
0178 280 Coal conversion instrumentation
0677 74 Neutron induced gamma spectrometry for on line compositional analysis in coal conversion and fluidized-bed combustion plants
1077 91 Instrumentation and process control for fossil demonstration plants, Annual Technical Progress Report, Oct. 1976 - Sept. 1977
1078 89 Coal analytical assembly using capture-gamma-rays from accelerator neutrons
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

O'HAIR, E
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

O'HARA, T
0280 71 Bench scale ebullating bed-fluid dynamics
0280 96 Shale oil analysis

O'HARA, FM
0177 269 Synthetic fuels process research digest

O'HARA, GM
0180 78 Coal Technology '80

O'HARA, JB
0174 12 Coal processing technology
0177 90 Coal processing technology, Volume 3
0178 272 Coal processing technology, Volume IV
0274 9 Demonstration plant, Clean-boiler-fuels from coal: Volume III. Preliminary design/economic analysis
0276 15 Coal liquefaction
0277 72 Preliminary economic analysis - oil and power by COED-based coal conversion
0278 101 Feedstocks from coal: How? When?
0278 132 Project POGO - A coal refinery
0278 146 Preliminary design services. Research and development report No. 114. Final report
0280 212 Coal liquefaction: The impact of product composition on relative economics
0379 39 Coal beneficiation and conversion developments
0574 19 Environmental factors in coal liquefaction plant design
0577 13 Environmental factors for Fischer-Tropsch coal conversion technology
0578 50 A clean coal conversion technology

O'KEEFE, W

0681 221 Burlington Industries' program proves worth of shift to coal
0880 7 Flue-gas desulfurization and coal's upswing direct your attention to slurry pumping
0880 24 Slurry-pump technology improvements are vital if coal is to live up to promises

O'LEARY, JF
1172 6 Symposium on energy, resources and the environment, Volume 2

O'LEARY, JR
0381 4 Scale-up of a SRC deashing process

O'LEARY, MJ
0279 104 Catalytic liquefaction of coal

O'LEARY, WJ
0580 188 Chemical analyses of water wells in selected strippable coal and lignite areas, Denver Basin, Colorado

O'NEILL, EP
0178 29 State-of-the-art for a high temperature sulfur removal system for fluidized-bed coal gasification
0277 132 Fluidization theories and applications
0574 15 Sulfur emission control with limestone/dolomite in advanced fossil-fuel processing systems
0673 6 Kinetic studies related to the use of limestone and dolomite as sulfur removal agents in fuel processing
0675 6 Fluidized-bed combustion process evaluation
0677 112 Corrosion/deposition in fluidized-bed combustion power-plant systems
0677 177 Optimizing sorbent utilization in once-through atmospheric pressure fluidized-bed combustion
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes

O'REAR, DJ
0279 228 Refining and upgrading of synfuels from coal and oil shales by advanced catalytic processes - Quarterly Report - April-June, 1979
0280 365 Catalytic hydroprocessing of SRC-II and H-coal syncrudes for BTX feedstocks
0281 239 Catalytic upgrading of H-Coal syncrudes

O'REILLY, JE
0580 53 Slurry-injection atomic absorption analysis of coal and minerals
1079 44 Slurry-injection atomic absorption-spectrometry for analysis of whole coal
1082 3 On the correlation of the weight per cent ash of coals and their silicon content

O'ROURKE, JE
0477 163 Subsidence monitoring systems for undermined areas. Final technical report. Woodward-Clyde Consultants
0778 22 Coal resources of the Americas. Selected papers

O'SHEA, TP
0181 233 The cool water coal gasification combined-cycle project
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

O'SULLIVAN, TF
0678 73 Coal-fired process heaters?

O'TOOLE, K
0177 209 Conversion of Rapid-City pilot-plant. Phase 1. Final Report, June - Dec. 1977
0178 252 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 2, Conversion work, equipment list and drawings, Phase III, Work scope, project schedule. Phase II. Final report, December 1977 - August 1978
0178 253 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 3, Design and construction cost estimates, overall program costs and schedule. Phase II. Final report, December 1977 - August 1978
0178 256 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 1, Summary, Test programs,

environmental assessment, gasifier control, and oxygen conversion. Phase II. Final report, December 1977 - August 1978

O'TOOLE, SL
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

OAVIES, GO
0277 13 Investigation of coal solubility in Anthracene Oils.

OBERG, CL
0178 79 Coal conversion by flash hydropyrolysis and hydrogasification
0179 255 Flash hydropyrolysis for high-value products
0277 7 Partial liquefaction of coal by direct hydrogenation, Annual Report, Aug. 1976 - July 1977
0277 101 Partial liquefaction of coal by direct hydrogenation, Annual report, August 1975 - July 1976
0279 6 Partial liquefaction of coal by direct hydrogenation. Annual technical progress report for the period of August 1977 - July 1978
0280 47 Coal liquefaction by flash hydropyrolysis
0280 141 Hydrogenation of carbonaceous materials

OBERLE, RD
0179 226 Gasoline from coal by the IGT-riser-cracking process
0277 44 Research and Development of rapid hydrogenation for coal conversion to synthetic-motor-fuels (riser-cracking of coal), Annual Report, April 1976 - March 1977
0278 160 Research and development of rapid hydrogenation for coal conversion to synthetic motor fuels (riser-cracking of coal), Project No. 8976 Annual Report, April 1977 - March 1978
0278 165 Research and development of rapid hydrogenation for coal-conversion to synthetic motor fuels (riser-cracking of coal), Project No. 8976 Task Report: Task 3, Design of a process development unit
0279 106 Coal hydropyrolysis permits product yield variation
0279 202 Flash hydrogenation of lignite and bituminous coal in an entrained flow reactor
0281 325 Research and development of rapid hydrogenation for coal conversion to synthetic motor fuels (Riser cracking of coal) - Final Report

OBERLIN, A
0280 170 Influence of elemental composition on carbonization. Pyrolysis of kerosene shale and kuckersite
0782 5 A possible mechanism for natural graphite formation
1081 119 Formation of thin mesophase layers at the interface between filler and binder in prebaked anodes. Effect of mixing on mesophase

OBERLIN, M
0782 5 A possible mechanism for natural graphite formation
1081 119 Formation of thin mesophase layers at the interface between filler and binder in prebaked anodes. Effect of mixing on mesophase

OBERLS, RD
0276 71 Research and development of rapid hydrogenation for coal conversion to synthetic motor fuels (riser-cracking of coal)

OBERMYER, RT
0181 162 Moessbauer and magnetic studies of bifunctional medium-pore zeolite-iron catalysts used in synthesis gas conversion
0280 295 Synthesis gas conversion to gasoline range hydrocarbons over medium pore zeolite catalysts containing 3d-metals and bimetallics

OBLAD, AG
0276 91 Catalytic liquefaction of coal and refining of products
0279 153 Hydrogenation of coal liquids in the presence of sulfided Ni-Mo/Al//20//3
0279 194 Catalytic cracking of hydrotreated coal-derived liquids (hydro-CDL) and related polycyclic naphthenes

OBODOVA, HL
0379 77 A study of the mechanism of the transformations of sulfide compounds of iron in Moscow coals during their thermal treatment

OBUKHOV, NK
0677 133 Detection of changes in the electric fields in the induction period of the spontaneous heating of piled coal

OCAMPO, A
0278 10 Deactivation of hydrodesulfurization catalysts under coal liquids. 1. Loss of hydrogenation activity due to carbonaceous deposits

OCHSNER, JC
0579 109 Source Assessment: Dry bottom industrial boilers firing pulverized bituminous coal
0680 167 Source assessment: dry bottom utility boilers firing pulverized bituminous coal

ODA, H
1081 95 Effect of air-oxidation on the pore-structure of coals and cokes or chars obtained from oxidized coals

ODE, WH
1057 0 Low temperature carbonization assays of North American coals
1058 0 The international systems of hard-coal classification and their application to American coals
1060 0 International system for classifying brown-coals and lignites and its application to American coals
1063 3 Plastic, agglutinating, and free-swelling properties of American coals

ODELL, PR
1179 55 The energy economy of Western Europe: A return to the use of indigenous resources

ODEN, LL
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

ODETTE, GR
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

ODGEN, TL
0479 97 Simpeds respirable dust sampler

ODOERFER, GA
0281 342 Fundamental studies in the conversion of coals to fuels of increased hydrogen content, Volume 1: the chemistry and mechanisms of coal conversion to clean fuel - Interim Report
0281 343 Fundamental studies in the conversion of coals to fuels of increased hydrogren content, Volume 2: the chemistry and mechanisms of coal conversion to clean fuel - Appendixes - Interim Report

ODOSKI, J
0481 83 High-pressure shrouded water sprays for dust control

ODRU, R
1081 102 Properties of CSF, a fast inorganic scintillator in energy and time spectroscopy

OELERT, H
1074 8 Spectroscopic studies on chemically reacted (oxidized) coals

OFFEN, GR
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

OGAN, K

1081 10 Liquid chromatographic separation of alkylphenols with fluorescence and ultraviolet detection
1082 18 Analysis of complex samples by coupled-column chromatography

OGAZA, H
0381 58 Investigations on the design and performance of large-volume mechanical-pneumatic flotation machines of the IZ-type

OGDEN, SO
0478 226 Economics, safety, and operating advantages of diesels in underground coal mines

OGG, CW
0574 34 Acid strip mine lake recovery

OGIER, WC
0281 83 Coal structure cleavage mechanisms: Scission of methylene and ether linkages to hydroxylated rings

OGINO, E
0881 46 Granulating Apparatus

OGINO, Y
0281 161 Volcano-shaped relation between heats of oxide formation of metals and coal-liquefaction activities of liquid-metal catalysts

OGISU, Y
0677 22 Experimental investigation of NOx formation in the fluidized-bed coal combustion

OGLE, IC
0380 6 Coal-oil-mixture research and development in Canada
0680 58 Overview of coal activities at the Canadian combustion research laboratory

OGLESBY, DB
0181 98 Thermal analysis of in-situ conversion of coal

OGREN, DF
0278 176 Catalyst withdrawal and addition in a coal liquefaction process
0279 70 Antisolvent deashing
0280 138 Gravity settling process

OGUNSOLA, OI
0280 105 The relationship between fuel-nitrogen-to NOx conversion efficiency and boiling range for coal-derived liquid fuel combustion
0280 106 The effect of increased aromaticity on the combustion characteristics of paraffinic kerosine

OGURI, H
0581 68 State of the art in desulfurization system for preventing environmental pollution caused by flue-gas from coal fired power stations

OHKI, K
0676 31 Fluidization technology, volume 1

OHL, E
0379 32 New dimensions for vibrating screens

OHLSSON, O
0677 153 Design status of the pressurized-fluidized-bed combustion component test and integration unit

OHNISHI, R

0579 69 Precision on the determination of trace elements in coal

OHTSUBO, T
0681 159 Flue gas treatment system for coal fired thermal power plants

OIKAWA, Y
0179 19 Gasification of coals treated with non-aqueous solvents. 6. Catalytic steam gasification at atmospheric pressures
0179 20 Gasification of coals treated with non-aqueous solvents. 5. Properties of coals treated with liquid ammonia

OJEDA-RIVERA, J
0778 22 Coal resources of the Americas. Selected papers

OJHA, AK
0281 281 Catalytic liquefaction of coal

OKA, M
0178 25 Characterization of the heavy products of coal pyrolysis
0282 186 A computer program, AMCLA, to analyze aromatic mixture and coal liquid
1077 107 Characterization of the heavy products of coal pyrolysis

OKA, S
0279 137 CHERRY-P process (Treatment of heavy ends)

OKABE, T
0679 173 Oxidaton of coals with nitrate in concentrated caustic soda solutions at elevated temperatures

OKADA, G
0181 80 On the electrolysis of coal slurries

OKADA, Y
0180 78 Coal Technology '80
0679 193 Fluidized bed combustion of coal
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 196 The assessment of metallurgical coke and coal in relating to blast furnace practice

OKAMURA, S
0181 124 Coal gasification process by Sumitomo metals

OKANE, K
0181 124 Coal gasification process by Sumitomo metals

OKAZAKI, H
1082 29 Rheological properties of coal-tar pitches

OKI, S
0173 53 Identification of rate-controlling steps for the water-gas shift reaction over an iron oxide catalyst

OKO, UM
0179 324 Mechanism of short residence time hydropyrolysis reaction for Montana Rosebud subbituminous coal
0181 91 Effect of selected catalysts on hydropyrolysis of Utah bituminous and Montana rosebud coals
0280 191 Short residence hydropyrolysis for coals
0282 53 Flash hydropyrolysis of Western Kentucky bituminous coal

OKOROCHKOV, AI
1080 175 The nonlinearity of the volt-ampere characteristics of anthracites

OKUBO, S
0477 140 Roof bolting patterns at the four-way entry intersections
0478 313 Roof bolting patterns at three-way entry intersections

OKUHARA, T
0681 222 Coal blending theory - retrospect and prospect
1079 190 Carbonization behavior of coal briquettes
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives
1081 67 Carbonization behaviour of coal briquettes in a slot-type oven

OKUMA, O
0280 240 Relationship between coal characteristics and its reactivity on hydroliquefaction

OKUTANI, T
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0280 5 Viscosity of coal paste under high hydrogen pressure
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal

OKUWAKI, A
0679 173 Oxidaton of coals with nitrate in concentrated caustic soda solutions at elevated temperatures

OKUYAMA, Y
0681 196 The assessment of metallurgical coke and coal in relating to blast furnace practice

OL'FERT, AI
0379 85 Methods for obtaining shaped coke and results of trials of such coke in blast furnaces
1081 122 Factors determining the properties of coal moldings from weakly caking hard coals
1181 22 The modern state and prospects of scientific investigations of improving methods for evaluating coal as a raw material for coking in the member countries of Comecon

OL'SHANETSKII, IG
0379 100 Caking evaluation of blends crushed for commercial carbonization

OL'SHANETSKII, LG
1081 216 Viscosity of coal charges in the plastic state

OLAF, J
0477 95 Third Symposium on Underground Mining

OLCAY, A
0178 93 Supercritical-gas extraction of two lignites
0181 10 Supercritical-gas extraction of Turkish coking coal
1079 88 Paraffinic hydrocarbons from supercritical-gas extracts of coal as organic geochemical markers

OLDAKER, EC
0175 5 Removal of hydrogen sulfide from hot low-Btu gas with iron oxide-fly ash sorbents

OLDENBORG, RC
0581 58 Spectroscopy and reaction kinetics of HS radicals

OLDENKAMP, RD
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

OLDFIELD, W
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

OLDHAM, RG
0577 23 Assessment, Selection and Development of procedures for determining the environmental acceptability of Synthetic fuel plants based on coal, Basic report and appendix 1
0577 57 Assessment, selection, and development of procedures for determining the environmental acceptability of synthetic fuel plants based on coal, Appendix 3
0577 78 Assessment, selection, and development of procedures for determining the environmental acceptability of synthetic fuel plants based on coal, Appendix 2

OLDS, FC
0979 2 Coal resources and outlook

OLDSHUE, JY
0881 11 Mixing of slurries near the ultimate settled solids concentration

OLEFIR, NA
0378 66 New nonpolar reagent for coal flotation

OLEKSY, JT
1179 28 Economic analysis of coal-fired cement kilns

OLEM, H
0476 22 Sixth Symposium on Coal Mine Drainage Research
0578 107 Rotating-disc biological oxidation of ferrous iron in the acid mine drainage treatment - dissertation

OLERICH, G
0281 230 Low-temperature hydrogen transfer and cracking catalysis in molten SbCl//3-AlCl//3

OLEXSEY, RA
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices
0678 69 Operation of the stoker boilers firing coal and refuse at Ames, Iowa

OLIEN, NA
0175 27 Selected topics on hydrogen-fuel

OLIKER, I
0680 225 Technical and economic aspects of coal-fired district heating power plants in the United States

OLIVA, JJ
0180 153 Texaco-based gasification-combined-cycle system performance studies

OLIVE, S
0176 22 The Fischer-Tropsch synthesis: Molecular weight distribution of primary products and reaction mechanism
0178 18 Hydroformylation and Fischer-Tropsch reaction - analogies and discrepancies

OLIVE, WW
0778 22 Coal resources of the Americas. Selected papers

OLIVER, DA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

OLIVER, MJ
0281 347 Changes in product oil composition during continuous hydroliquefaction of an Australian black coal

OLIVER, RH
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute

OLIVER, RW
0177 256 Proceedings of the third annual underground coal conversion symposium

OLIVIER, D
0180 165 Catalysis by supported clusters: Chemisorption, decomposition and catalytic properties in Fischer-Tropsch synthesis Fe//3 CO//2 supported on highly divided oxides

OLMEZ, I
1080 42 Concentrations of elements in the National Bureau of Standards' bituminous and subbituminous coal standard reference materials

OLNESS, D
0177 82 The Historical development of underground coal gasification

OLNESS, DU
0176 116 Basic principles of underground coal gasification
0178 235 The underground coal gasification station at Lisichansk

OLOFINSKII, EP
0879 28 Problems in the fluid mechanics of pipeline systems for hydraulic transport of solid materials

OLOFSSON, J
0680 120 Mathematical modelling of fluidised bed combustors

OLOPHYNSKY, JP
0877 17 Economics of mineral and brown coal pipeline hydrotransport

OLSEN, DL
0178 188 Preliminary market evaluation for gas produced by underground gasification of western coal, Final report
0178 382 Market opportunities for low-and-intermediate-Btu gas from coal in selected areas of industrial concentration, final report
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
1178 21 Market opportunities for low-and-intermediate-Btu-gas from coal in selected areas of industrial concentration

OLSEN, JD
0477 94 Seventh Symposium on Coal Mine Drainage Research
0576 37 Environmental contamination from trace-elements in coal preparation wastes - A literature review and assessment
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0578 119 Trace element characterization and removal/recovery from coal and coal wastes
1078 53 High-temperature carbon-dioxide/oxygen-coal reaction rate experiments
1078 60 Trace-element distributions in several coal conversion processes

OLSEN, RD
0476 22 Sixth Symposium on Coal Mine Drainage Research
0480 160 Environmental control technology survey of selected U.S. strip mining sites Volume 2B: Alabama
0576 5 Preliminary results from a study of coal mining effects of water quality of the Tongue-River, Wyoming
0577 7 Assessment of water quality impacts of a western coal mine

OLSEN, RW
0480 64 Intensive use of diesels underground

OLSEN, TM
0380 182 Desulfurization of coal by thiobacillus ferrooxidans

OLSHANSKY, RB

	0578 78	Comprehensive bibliography and index of environmental information for the Beluga-Susitna, Nenana and Western Artic Coal Fields, Volume II
	0579 15	Comprehensive bibliography and index of environmental information for the Beluga-Susitna, Nenana and Western Artic coal fields. Volume III
OLSON, CD		
	1076 8	Crystallization and vaporization studies on synthetic coal-slag compositions
OLSON, DP		
	0179 191	Controlling fluidized-bed gasification
	0578 9	Environmental aspects of the Hygas process
OLSON, ES		
	0280 300	Characterization of light oils from liquefaction of lignite
OLSON, GJ		
	0579 29	Impact of western coal mining. II. Microbiological studies
	0579 30	Impact of Western coal mining. I. Chemical Investigations of a surface coal mine sedimentation pond
	0579 31	Environmental Effects of Western Coal Surface Mining: Part IV - Chemical and microbiological investigations of a surface coal mine settling pond
	0580 105	Occurence and activity of iron and sulfur-oxidizing microorganisms in alkaline coal strip mine spoils. Final report
	0678 257	Fuel and ash characterization and its effect on the design of industrial boilers
OLSON, JH		
	0179 283	Hot, low-Btu producer gas desulfurization in fixed bed of iron-oxide fly-ash, final report, July 1977 - March 1978
	0276 68	Kinetics and mechanism of desulfurization and denitrogenation of coal-derived liquids. Annual report, June 1975 - June 1976
	0278 55	Effect of catalyst pore structure on the hydroprocessing of coal-derived liquids
	0280 301	Catalyst deactivation in hydrotreating coal-derived liquids
OLSON, JJ		
	0477 72	Mechanized Longwall Mining, A Review Emphasizing Foreign Technology
OLSON, JK		
	0179 316	Effects of coal structure and processing conditions on organic effluents from slagging fixed-bed gasification
	0180 236	Effect of operating conditions on production of light hydrocarbon gases in slagging fixed-bed coal gasification
	0181 83	Mass spectroscopic characterization of tars from the gasification of low-rank coals
	0280 334	Ion pair liquid chromatography of coal-derived light oils
	0578 112	Evaluation of methods for determination of sulfide in slagging fixed-bed coal gasification wastewater
	1080 169	Organic structural studies of lignite coal tars
OLSON, JS		
	0580 14	The expanded use of fossil fuels by the U.S. and the global carbon-dioxide problem
OLSON, ML		
	0179 221	Development of coalbed methane as an energy source
OLSSON, EG		
	0178 162	Desulfurization of hot-reducing-gases with calcined dolomite
OLVER, LA		
	1176 7	Regional energy system for the planning and optimization of national scenarios repons. Final report. Clean coal energy: Source-to-use economics project

OMEFORS, G
0180 78 Coal Technology '80

OMID, G
0278 218 Enthalpy measurements for coal-derived liquids - dissertation

OMORI, S
0678 235 Cyclone and fluidized-bed combustion concepts for coal-fired open-cycle-MHD
0679 156 High slag rejection, high carbon conversion rate, air cooled cyclone coal combustor for MHD regenerative heat exchangers
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

ONDEYKA, JG
1078 19 Indirect measurement of sedimentation rates at high temperature and pressure by x-ray photography

ONDIK, HM
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

ONDOV, JM
0379 21 Elemental emissions from a coal-fired power-plant. Comparison of a Venturi wet-scrubber system with a cold-side electrostatic precipator
0579 10 Emissions and particle-size distributions of minor and trace-elements at two eastern coal-fired power-plants equipped with cold-side electrostatic precipitators
0579 116 Physical and chemical characterization of aerosol emissions from coal-fired power plants
0580 0 Environmental and climatic impact of coal utilization
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
0678 4 Behaviour of natural radionuclides in Western coal-fired power plants
0679 104 Chemical studies of stack fly-ash from a coal-fired power-plant
0680 29 Application of surface-deposition models to size-fractionated coal fly-ash
1078 39 Elemental particle-size emissions from coal-fired power-plants: Use of an inertial cascade impactor
1078 44 Characterization of trace-element emissions from coal-fired power-plants
1079 106 Filtration studies with neutron-activated coal fly-ash

ONDREY, RS
0475 9 First Symposium on Underground Mining, Volume I

ONIANI, SI
0478 166 Thermophysical properties of crushed stowing materials and hardened stowing

ONISCHAK, M
0182 111 An exploratory study of a combined sonic agglomeration and crossflow filtration system for hot gas cleanup

ONISHCHENKO, AM
1079 173 Radioisotope methods and instruments for monitoring the ash of coals
1079 212 Influence of variations in the parameters of coal on the readings of ash-meters
1079 246 Ash analyzer for coal testing
1079 252 Method of measuring the ash of coal

ONLEY, JK
0880 4 Recent developments in transport systems

ONO, CO

1180 14 Physical and chemical characterization of Athabasca tar sands fly ash

ONSTAD, CA
0577 44 Predicting sediment yields

ONURSAL, AB
0179 352 Applicability of hot gas cleanup processes to coal gasification systems

OPOKU, J
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report

ORCHIN, M
0281 94 Solubilization of Illinois bituminous coal: the critical importance of methylene group cleavage

ORCUTT, JC
0374 0 Coal utilization symposium - Focus on SO//2 emission control

ORDEN, DR VAN
0380 24 A preliminary analysis of smooth roll crushers

ORDER, RR
0377 8 Technical and Cost Comparisons for chemical coal cleaning processes

ORHIEM, A
0979 5 Geochemical affinities as exploration and classification tools

ORIOLO, DJ
0279 209 Preliminary engineering evaluation of promising coal liquefaction concepts. Final report

ORLOV, SL
0379 124 A vertical centrifugal classifier

ORMEROD, WG
0679 65 Improved method of combustion control of coal-fired boilers using flue-gas carbon-monoxide analysis
0681 85 Automatic trimming of combustion air to a pulverized-coal-fired boiler using the flue gas carbon monoxide signal

ORMOS, Z
0676 32 Fluidization technology, volume 2

ORNING, AA
0174 12 Coal processing technology

ORO, J
0178 135 Synthesis of fatty acids by a closed system Fischer-Tropsch process

ORPHAN, V
1077 86 Coal stream composition analysis for process control using prompt neutron activation analysis
1080 153 Nuclear assay of coal - Volume 1: Coal composition by prompt neutron activation analysis - Basic Experiments

ORR, A
0675 4 Fluidized combustion for Western-fuels

ORR, S
0177 32 Effect of temperature of reduction on the activity and selectivity of a coprecipitated nickel-alumina catalyst for the Fischer-Tropsch and Methanation reactions

ORR, FM
0280 183 Reduction of viscosity of coal-derived products using CO//2

ORR, HK
0477 92 Fifth Symposium on Surface-mining and reclamation

ORR, LP
0882 8 Stapelton: proposed coal export terminal on Staten Island, New York, using coal slurry technology

ORSINI, RA
0377 48 Coal desulfurization test plant status - July 1977
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

ORTIZ, PM
1082 43 Moving feed point gel permeation chromatography. An improved preparative technique

ORTT, JR
0177 300 Heat transfer to viscous materials in a continuous-flow, scraped-wall, commmercial-size heat exchanger

ORTUGLIO, C
1067 2 Yields and analyses of tars and light oils from carbonization of U.S. coals

OSACAR, J
1082 27 Gel permeation chromatography applied to the study of the nitrohumic acids from coal

OSAFUNE, K
0277 84 Solvolysis liquefaction of coal using petroleum vacuum residue. II Effect of rank of coal on yield of products in solvolysis liquefaction

OSANIK, A
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

OSBORNE, MW
0177 300 Heat transfer to viscous materials in a continuous-flow, scraped-wall, commmercial-size heat exchanger

OSBORNE, PS
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

OSBORNE, TJ
0479 22 The impacts of coal strip mining on the hydrogeologic system of the Northern-Great-Plains: Case study of potential impacts on the Northern Cheyenne Reservation
0581 1 Hydrologic impacts from potential coal strip mining - Northern Cheyenne Reservation - project summary

OSCHELL, FJ
0680 119 Improved coal combustion through chemical treatment

OSGERBY, IT
0179 348 Catalytically supported thermal combustion of coal derived low BTU gas - Final Report, Part I: Performance with low Btu gas fuels

OSHURKOVA, MV
0577 72 The principles and methods of facies-paleoecological studies of continental deposits containing plant remains

OSIPOV, AM
0280 316 An investigation of the products of the low-temperature catalytic hydrogenation of Donbass coals

OSIPOVA, KD
0280 316 An investigation of the products of the low-temperature catalytic hydrogenation of Donbass coals

OSKAM, GW
0681 21 A coal burning rotating fluidized bed combustor operating at atmospheric pressure

OSTASHEV, VE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

OSTASHEV, VY
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

OSTERGAARD, K
0678 120 Holdup, mass-transfer, and mixing in three-phase fluidization

OSTERLE, F
0181 105 The thermodynamic performance of two combined cycle power plants integrated with two coal gasification systems

OSTERMEIER, RM
0578 88 Feasibility study of condensation flue-gas cleaning (CFGC) system

OSTOP, RL
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

OSTROVSKII, VS
0678 245 Role of sorption in the sintering of carbonaceous materials
0679 129 Investigation of the influence of the composition of the gaseous medium on the formation of the properties of carbonaceous materials in firing
0679 165 The question of the interconnection of the reactivity of carbonaceous materials with their crystal structure
1081 130 The strength characteristics of coke fillers of carbonaceous materials

OSTRUM, VH
1082 76 A rapid screening procedure for a 2-aminonaphthalene in natural, synthetic refined crudes

OSTWALD, PF
1176 3 A total present worth economic comparison of coal and nuclear fuel energy alternatives

OSWALD, GE
0281 181 Characterization of coal-solvent slurries and H-Coal PDU reactor effluent at high temperatures and pressures
0281 264 Hydrocarbonization Research: Completion report
0282 31 Carbon-14 tracer study of the fate of tetralin under simulated SRC-I coal liquefaction conditions
0282 132 The Rheological characterization of coal liquefaction preheater slurries

OTA, K
0182 52 Reaction of sulfides in fuel gases with the iron oxide in coal ashes. Fixed-bed experiments and simulations

OTHMER, DF
0177 6 Energy - Fluid Fuels from Solids
0181 63 Method for producing SNG or SYN-gas from wet solid wastes and low grade fuels
0281 56 Methanol - the versatile modern fuel
0282 133 Producing methanol for fuels
0580 147 Earth plus water plus air equals fire - wet air oxidation (WAO) of wastes

OTSUKA, T
0377 62 Vacuum filtration of fine particles with the aid of ultrasound

0377 63 Ultrasonic assist in dewatering and filtration of fine particles

OTTAWAY, M
1082 55 Use of thermogravimetry for proximate analysis of coals and cokes

OTTE, JA
0475 8 Third Symposium on Surface-mining and reclamation, Volume II
0476 21 Fourth Symposium on surface-mining and reclamation

OTTH, D
0177 122 Evaluation of ERDA-sponsored coal-feed system development

OTTO, K
0179 17 Effects of calcium, strontium, and barium as catalysts and sulfur scavengers in the steam gasification of coal chars
0179 185 Catalysis of carbon-steam gasification by ash components from two lignites

OUCHI, K
0181 35 Effect of pressure and temperature on the reaction of coal with alcohol-alkali
0182 27 Influence of alkali on the carbonization process-II Carbonization of various coals and asphalt with NaOH
0182 57 Coal hydrogenolysis in the presence of NaOH
0278 111 Mechanism of hydrogenation of coal-derived asphaltene
0279 86 Pressure and temperature effect on the mean chemical structure of coal hydrogenolysis product
0281 64 Hydrogenolysis of coal-related model compounds by carbon monoxide-water mixture
0281 107 Dissolution of coal with NaOH-alcohol: effect of alcohol species
0281 124 Effect of precarbonization temperature on liquefaction of lignites
0281 135 Reaction mechanism for the hydrogenolysis of coal-derived preasphaltene
0281 137 Solubility increase of coals by treatment with ethanol
0281 166 Reduction of coal with hexamethylphosphoramide-Na-t-BuOH
0282 38 Coal liquefaction by the hydrogen produced from methanol
1078 45 Extraction increase of coals treated with alcohol sodium hydroxide at elevated temperatures
1078 141 A cause of exothermic heat evolution in hydrogenolysis of coal
1079 74 Structural analysis of Na//O//H - alcohol treated coals
1079 120 Activity tests of various catalysts for hydrocracking of coals by means of high pressure differential thermal analysis
1079 129 Reaction mechanism of alkali-alcohol treatment of coal
1079 202 Effect of hydrogen pressure on the reaction of NaOH-alcohol-coal
1079 232 Structural analysis of quinoline extracts and hydrolysis products of coals
1080 132 Reduction of coal in hexamethylphosphoramide-Na-t-BuOH and the molecular weight distribution of pyridine-soluble material
1080 214 Structural analysis of quinoline and pyridine extracts of coal
1080 222 Average chemical structure of mild hydrogenolysis products of coals
1081 161 Solubilities of Taiheiyo (Japan) coal in a series of alcohols

OUDIN, JL
0781 13 Example of the enrichment of carbon-13 in coals in the process of coalification

OUENTIN, GH
0179 150 Fixed-bed gasifier dynamic model for IGCCP control study

OVED, Y
0681 35 Reinforced blast waves in gases containing solid particles

OVERALL, J
0179 146 Development of an industrial burner for using gases of low-calorific value

OVERBEY, WK

0173 33 Directional properties of coal and their utilization in underground gasification experiments

OVERCASH, MR
0581 11 Land treatment of coal gasification wastes

OVERDUIN, CL
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

OVERTON, DE
0477 92 Fifth Symposium on Surface-mining and reclamation
0579 21 Environmental aspects of coal production in the Appalachian region progress report for June 1978 - May 1979

OVERTON, JA
0476 29 Second Institute on Coal Mine Health and Safety

OVODKOVA, TN
0380 152 Separation of bases from tar at the coking plant of the Nizhny Tagil integrated iron and steel works

OWEN, J
0279 100 Coal liquefaction
1178 34 Some reflections on future research on coal

OWEN, HK
0276 11 Process for producing low-sulfur liquid and solid-fuels from coal
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

OWEN, ML
0181 223 Technology and use of lignite, Vol. 1 and 2

OWEN, RM
0577 73 An assessment of the environmental impact of mining on the continental shelf

OWEN, TE
0182 79 Permitting requirements and procedures in selected states with UCG potential

OWENS, RS
0178 272 Coal processing technology, Volume IV

OWENS, TC
0181 223 Technology and use of lignite, Vol. 1 and 2
0279 118 Application of liquefaction process to low-rank coals
0280 290 Laboratory batch liquefaction of low rank coals
0282 52 Low-rank coal liquefaction employing H//2S as a homogeneous catalyst

OXLEY, JH
0174 20 Development of information for standards of performance for the fossil-fuel conversion industry
0176 95 Phase I summary report on a novel approach to coal gasification using chemically-incorporated catalysts
0177 90 Coal processing technology, Volume 3
0177 152 Synthetic-fuels in the future of energy
0180 78 Coal Technology '80
0375 5 The Battelle hydrothermal coal process
0676 32 Fluidization technology, volume 2
1177 16 Coal desulfurization by the Battelle hydrothermal coal process

OYSTER, JM
0181 192 Gasifier evaluation for gasoline production

OZAWA, H
0281 107 Dissolution of coal with NaOH-alcohol: effect of alcohol species

OZAWA, S
0281 161 Volcano-shaped relation between heats of oxide formation of metals and coal-liquefaction activities of liquid-metal catalysts

OZUM, B
0182 3 Finite element heat transfer modeling of underground coal gasification
0282 7 Coal liquefaction heat transfer: Measurement and modeling
0282 8 Viscosity of coal-bitumen and coal-anthracene oil slurries
0282 176 Modeling of liquefaction reactors

OZYILDIZ, G
1081 89 Infrared spectra of humodetrinite from the Fortuna-Garsdorf mine

P'YANKOV, BF
0380 160 Coking a preheated charge with a high content of gas coal at the Western Siberia Iron and Steel Works

PAAKKARI, T
1081 142 Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl

PABST, M
0878 45 Thunder-Bay terminals link western coal with eastern market

PABST, JK
0180 281 Alkali catalyzed carbon gasification 1. Nature of the catalytic sites
0180 282 Alkali catalyzed carbon gasification 2. Kinetics and mechanism

PACELLI, RR
0581 39 Biogeochemistry of acid mine drainage and a method to control acid formation

PACER, DW
0678 164 Impact of fuel on furnace design for pulverized-coal-fired boilers

PACEY, J
0581 22 Groundwater quality monitoring at coal-fired power-plants: status and review

PACK, DH
0580 0 Environmental and climatic impact of coal utilization

PACK, GE
0178 117 Economic studies of coal gasification combined-cycle systems for electric-power generation
0276 98 Coal liquefaction design practices manual

PACKER, CM
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

PACKER, LJ
0680 20 High grade granular activated carbons from Victorian-brown-coal

PACYNA, JM
0580 83 Radiation dose due to atomospheric releases from coal/fired power stations
0580 170 Radionuclide behavior in coal-fired plants

PADGETT, M
0580 58 Laboratory support

PADIA, A
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PADRICK, TD
0282 144 Decomposition of pyrite under coal liquefaction conditions: a kinetic study

PADRON, DV
0881 48 Coal Technology '81, Vol. 2

PAGANO, AF
0680 4 Utilization of multiplexing techniques for existing TVA fossil power plants.

PAGE, AL
0580 148 Utilization and disposal of fly ash and other coal residues in terrestrial ecosystems: A review
0581 10 Fly ash-derived strontium as an index to monitor deposition from coal-fired power plants

PAGE, GC
0178 69 Low and Medium-Btu gasification systems technology overview
0181 94 Application of Kosovo (Lurgi) gasification plant test results to pollution control process design
0579 41 Environmental impact of synthetic-fuels development
0579 122 Environmental assessment: Source test and evaluation report - Wellman-Galusha (Glen Gery) low-Btu gasification
0580 10 Environmental assessment and control technology for low Btu gasification works

PAGE, GT
0178 89 Symposium on Coal Refining, Proceedings
1181 2 Coal in the Canadian context
1182 13 Make commitments now: a message from The Coal Association of Canada

PAGE, WP
0477 96 Competition in National and Appalachian coal markets
1180 40 Horizontal divestiture of energy companies: regional market evidence on coal production and reserve ownership concentration ratios

PAGENKOPF, GK
0580 73 Factors influencing the release of boron from coal ash materials

PAI, JR
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PAICE, DA
0475 10 First Symposium on Underground Mining, Volume II

PAIGE, WA
0180 78 Coal Technology '80

PAINTER, PC
0278 201 The relation of coal characteristics to liquefaction behavior. Quarterly progress report
0280 354 Characterization of mineral matter in coals and coal liquefaction residues
0680 30 Fourier transform infrared study of the variation in the oxidation of a coking coal
1078 63 Fourier transform infrared study of mineral matter in coal. A novel method for quantitative mineralogical analysis
1079 97 Application of fourier-transform infrared spectroscopy to the characterization of fractionated coal liquids
1079 102 Investigation of retrogressive reactions leading to the carbonization of solvent-refined-coal

1080 4 Fourier transform infrared studies studies of coal and mineral matter in coal
1080 24 Analysis of kaolinite in coal by infrared spectroscopy
1080 28 Concerning the putative presence of nitrate in lignites
1080 195 The application of fourier transform infrared spectroscopy to the characterization of coal structure
1081 1 Fourier transform infrared spectroscopy as a tool in coal research
1081 8 A Fourier transform infrared study of mineral matter in coal: The application of a least squares curve-fitting program
1081 9 Low temperature air oxidation of caking coals: Fourier transform infrared studies
1081 74 Concerning the application of FT-IR to the study of coal: A critical assessment of band assignments and the application of spectral analysis programs
1082 20 Chemical characterization of solid coals through magic-angle C-13 nuclear magnetic resonance
1082 52 Characterization of vitrinite concentrates. 1. Fourier Transform infrared studies

PAINTERS, PC
0781 21 Determination of kaolinite in coal by infrared spectroscopy - a comment

PAISLEY, MA
0179 178 The tri-gas gasification process

PAK, YN
1080 173 A method of determining the carbon content of coals from the Gamma radiation of the nonelastic scattering of fast neutrons
1081 124 The monitoring of ash content by the neutron gamma radiation spectrometry method

PAKDEL, H
0282 6 Cyclic alkanes as geochemical markers in coal liquefaction products
1079 88 Paraffinic hydrocarbons from supercritical-gas extracts of coal as organic geochemical markers

PALARSKI, J
0478 154 Contribution to the explanation of discontinuous surface deformations and large subsidences over stowed workings

PALAZZO, DF
0180 78 Coal Technology '80

PALEPU, R
0481 152 Prediction of methane in Cape Breton mines

PALGRAVE, R
0478 294 Automatic control of main mine dewatering pumps

PALKO, J
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

PALKO, JE
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

PALL, RL
0678 260 Criteria for selection of coal additives

PALMER, J
0180 78 Coal Technology '80

PALMER, EC
0579 76 Design of compliant refuse disposal systems

PALMER, KW
0280 115 Process for the production of amorphous aluminosilicates and their use as catalysts

PALMER, ME
0578 28 Acidity and nutrient availability in colliery spoil

PALMER, PM
0175 13 High Pressure gasifier and sulfur removal from coal

PALMER, RB
0180 173 Correlation of the high-temperature corrosion behavior of structural alloys in coal conversion environments with the components of the alloys and of the corrosive environments

PALMER, RJ
0175 21 Gas turbine operation using solid-fuels and low-Btu-gas

PALMER, WB
0678 129 HTGR fuel reprocessing fluidized-bed burner development at ACC

PALOMBA, CA
0479 196 A discriminant analysis of dropouts from a coal miner training program

PALOMBA, NA
0479 196 A discriminant analysis of dropouts from a coal miner training program

PALOWITCH, ER
0475 9 First Symposium on Underground Mining, Volume I
0476 23 Second Symposium on Underground Mining
0477 95 Third Symposium on Underground Mining
0478 35 Underground coal mining research
0479 195 Automated guidance and control of longwall mining machines

PAM, RL
0681 181 Pilot-scale development of a low-NO//x coal-fired tangential system

PAN, WP
1082 67 Coal decomposition: effects of heating rate and furnace atmosphere

PAN, YS
0680 144 Recent coal-oil mixture combustion tests at PETC
0681 118 Combustion of solvent-refined coal in a 100-HP firetube boiler

PANASEIKO, SP
0478 302 Effect of antipyrogens on the activity of coal from the Benzymyannyi seam

PANCHENKO, NI
1080 198 Properties of cokes from mixtures of coals of the Donets and Karaganda Basins

PANCHENKO, VA
0680 118 Features of the evolution of hydrogen sulfide in the thermal decomposition of hard coals of different ranks

PANCIROV, RJ
0276 17 Chemical properties of Synthoil products and feeds, Final Report, Part IV
0276 18 Chemical properties of Synthoil products and feeds, Final Report, Part I
0276 19 Chemical properties of Synthoil products and feeds, Final Report, Part II
0276 22 Chemical properties of Synthoil products and feeds, Final Report, Part V

0276 23 Chemical properties of Synthoil products and feeds, Final Report, Part III
0280 299 Chemical composition of raw and upgraded anthracene oil and the chemistry of coal liquids upgrading
0281 237 Chemical composition of raw and upgraded anthracene oil and the chemistry of coal-liquids upgrading
1080 217 Organic compounds in coal: structure and origins
1081 38 Pyrolysis of benzyl ether under hydrogen starvation conditions

PANDA, FA
0381 44 Kinetics of the removal of iron pyrite from coal by microbial catalysis

PANDEY, GN
0179 246 Low temperature catalytic gasification of coal

PANDEY, MP
0581 50 Inorganic mercury-bituminous coal sorption interaction in water

PANGARO, N
0580 152 Inventory of organic emissions from fossil fuel combustion for power generation

PANICO, S
0679 188 Conceptual design of a gulf coast lignite-fired atmospheric fluidized-bed power plant
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

PANIN, AS
0379 95 Technological scheme for the waste-free treatment of thermal power station ash

PANIN, VI
0380 72 Process for the production of alumina from mineral component of solid fuels

PANKRAT'EV, ON
0379 68 A controllable electric drive, incorporating protection against explosion, for automatic belt-feed batchers
0879 30 Controller for filling rail tankers with coal tar

PANKRAT'EV, YD
1078 138 Heat of sorption in a methane-coal system

PANKRATZ, WL
0680 4 Utilization of multiplexing techniques for existing TVA fossil power plants.

PANNELL, RB
0280 198 Sulfur poisoning of H//2 and CO adsorption on supported nickel
0281 297 A steady-state study of Fischer-Tropsch product distributions over cobalt, iron and ruthenium
0282 193 Coal liquefaction product gas analysis with an automated gas chromatograph

PANOV, VI
0578 99 Use of Kansk-Ashinsk brown coals for combined power and technological purposes

PANTAGES, P
0178 225 Effect of reduction temperature, carbiding and sulfur-poisoning on the methanation activity of Raney-nickel

PANUNZIO, S
0677 138 Fluid dynamics of a fluidized-bed packed with heat-exchangers, Annual Report, Feb. 1976 - Jan. 1977, Part A. The pilot fluidized-bed - Experiments analysis and conclusions, Part B. The large scale fluidized-bed facility

PANVELKER, SV
0281 175 Refining of coal liquids

PAOLINI, AP
0479 201 Putting the 'remote' in remote control

PAP, G
1080 20 Chemical reduction of sulphur dioxide to free sulphur with lignite and coal -- 1. Steady-state reaction chemistry and interaction of volatile components.
1080 21 Chemical reduction of sulphur dioxide to free sulphur with lignite and coal 2. Kinetics and proposed mechanism

PAPACHRISTODOULOU, G
0681 191 Grinding of coal slurries with the Szego mill

PAPADOPOULOS, A
0976 0 Coal Exploration

PAPASTEFANOU, C
1079 92 On the radioactivity of fly-ashes from coal power-plants

PAPAVERGOS, P
0677 87 An investigation of acid smut formation in an industrial boiler plant

PAPAY, L
1177 44 Symposium on coal dilemma: How and where to use it

PAPCHENKO, VA
0680 116 Effect of coal thermal decomposition conditions on the nature of hydrogen sulfide formation

PAPE, HG
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

PAPIC, MM
0177 28 Hat Creek Coal Utilization
0281 31 Coal liquefaction via Sasol Fischer-Tropsch synthesis

PAPIRER, E
1080 35 Structural modes of sulphur-bitumen composites as studied by electron microscopy
1080 60 Dynamic-mechanical properties of a bitumen-silica composite II. Temperature- concentration and frequency-silica concentration equivalence
1080 61 Dynamic-mechanical properties of a bitumen-silica composite III. Modelling of the behaviour of bitumen-silica composites and confirmation of the equivalence principles
1080 74 Structural modes of sulphur in sulphur-bitumen composites as studied by electron-microscopy

PAPIROVA, EA
1080 75 Chemical transformations of brown-coal waxes

PAPPANO, AW
0474 3 Fifth Symposium on Coal Mine Drainage Research
0476 22 Sixth Symposium on Coal Mine Drainage Research

PARAMONOVA, ZM
1078 154 Study of the composition of the acid part of refined brown-coal wax

PARANJAPE, AS
0282 70 Microautoclave studies. Part I: The effect of microautoclave mixing and workup procedure on microautoclave coal conversion. Part II: The effect of basic-nitrogen solvents on coal conversion

PARANJAPE, SM

0280 192 Selectivity improvement in the solvent refined coal process. 2. Detailed second-stage reaction studies: Hydrotreating of coal liquids

PARASKOS, JA
0276 25 Catalytic process for liquefying coal
0276 60 Conversion of carbonaceous materials
0277 129 Process for increasing the fuel yield of coal liquefaction products by extraction asphaltenes, resins and aromatic compounds from said coal liquefaction products

PAREEK, HS
1077 7 Coal -- Its formation and composition

PAREJA, CA
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

PAREKH, RD
0678 29 Design study for a coal/oil slurry pumping and preheating system

PARFENYUK, AS
1081 128 The change in the elastic properties of semicoke-coke across a cross-section of the layer in a continuous coking chamber

PARIS, B
0377 39 Direct determination of organic sulfur in raw coals

PARIS, MW
0678 85 Mineral characterization of fluidized-bed combustion aerosol ash - Montana rosebud sub-bituminous coal

PARISEAU, WG
0277 0 Simulated solution mining of a Utah bituminous coal
0479 248 Elastic-plastic and elastic-brittle finite element analysis of cave zone growth in response to longwall fall advance
0481 79 Comparisons between finite element calculations and field measurements of room closure and pillar stress during retreat mining
0481 127 Inexpensive but technically sound mine pillar design analysis
0779 5 3D mine pillar design information from 2D FEM analysis

PARK, D
0680 26 A comparison of the Plume model with currently used models for atmospheric fluidized bed combustion
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 6 Plume model for large particle fluidized-bed combustors
0681 149 A model for large scale atmospheric fluidized bed combustors
0682 41 Plume model for sulphur capture in large-scale, atmospheric fluidized-bed combustors

PARK, DW
0477 28 Shortwall mining in the United-States - A record of failure and success
0477 64 Model studies of subsidence and ground movement using laser-holographic-interferometry.
0477 108 Review of the shortwall mining in the United-States
0479 249 Measurement of the support resistance of shortwall chocks and its applications

PARK, JW
0180 150 Reducibility and surface area of coprecipitated supported nickel methanation catalysts

PARK, JY
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland

0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 178 The erosion of a type 310 stainless steel cyclone from coal gasification pilot plant

PARK, WK
0181 239 Temperature-time-reaction medium controlled hydropyrolysis: a batch reactor study

PARK, WR
0681 94 Advanced power plant siting in Ohio

PARKASH, S
0280 188 Studies on coal liquefaction catalysts
0282 68 Determination of active metal sites in metal oxide catalysts by selective gas chemisorption
0282 86 Petrographic analysis for a high volatile Australian coal and its liquefied residue
0282 156 The role of acid-base sites in the preparation of Al//2O//3 supported platinum catalysts
0282 172 Reactivity of char from subbituminous coals
0282 175 Liquefaction characteristics of Alberta subbituminous coals
1071 0 The deterioration of caking properties during prolonged agitation of coal in water
1076 6 Effects of boron trifluoride sorption on the caking properties of coal
1076 9 Use of peat and coal for recovering zirconium from solution
1080 8 Mesophase behaviour in oil sand bitumen pitch

PARKER, R
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
0582 0 Evaluation of a cyclone dust collector for high-temperature, high-pressure particulate control

PARKER, T
0577 19 Advanced fossil-fuel and the environment - An executive report

PARKER, CL
0578 105 Environmental assessment data base for coal-liquefaction technology: Vol. II. Synthoil, H-Coal, and Exxon Donor Solvent Processes

PARKER, ER
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0179 229 Design of steels for coal gasification pressure vessels
0881 50 Wear resistant alloys for coal handling equipment - Final Technical Report, October 1, 1977-March 31, 1981

PARKER, FG
0677 4 Characterization of Ash from Coal-Fired Power Plants

PARKER, HW
0282 109 Liquid synfuels via pyrolysis of coal in association with electric power generation

PARKER, JH
0581 29 Coal waste artificial reef program, phase 3, volume 2: comprehensive report
0582 23 Coal waste artifical reef program, phase 4a, - Interim Report

PARKER, MJ
0477 70 World coal trade developments

PARKER, RA
0580 139 Field tests of industrial stoker coal-fired boilers for emissions control and efficiency improvement site J (Data supplement)
0580 144 Field tests of industrial stoker coal-fired boilers for emissions control and efficiency improvement - Site K - Data Supplement
0680 146 Field tests of industrial stoker coal-fired boilers for emissions control and efficiency improvement - Site G, Data Supplement
0680 162 Field tests of industrial stoker coal-fired boilers for emissions control and efficiency improvement - Site I (data supplement)
0680 163 Field tests of industrial stoker coal-fired boilers for emissions control and efficiency improvement - Site E (data supplement)

PARKER, WA
0277 125 Zinc-halide hydrocracking process for distillate fuels from coal, Annual technical progress report for 1976, Including the quarter ending January 1977
0278 145 Zinc-halide hydrocracking process for distillate fuels from coal, Annual Technical Progress report, Feb. 1977 - Jan. 1978

PARKHURST, BR
0579 73 Value of chemical fractionation for identifying the toxic compounds of complex aqueous effluents
0581 64 A reevaluation of the toxicity of coal conversion process waters

PARKINS, WE
0176 88 Hydrogen production

PARKINSON, G
0278 84 Rocket systems boost coal conversion plans

PARKINSON, HE
0475 10 First Symposium on Underground Mining, Volume II

PARKINSON, WW
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

PARKISON, WE
0179 102 Field experience with Texas lignite in-situ gasification tests

PARKS, BC
1052 2 Second Conference on the origin and constitution of coal

PARKS, GD
0280 197 Surface studies of the interaction of nickel and antimony on cracking catalysts
1079 93 On auger electron spectroscopic measurements of zinc-chloride-coal interation

PARKSONS, WA
0179 40 Water treatment needed in gasification

PARLIKAR, RN
0177 212 Producer-gas and its application

PAROBEK, L
0377 12 Electrostatic beneficiation of coal in a fluidized state
1076 5 Electrostatic separation of coal macerals

PARRISH, WR
0175 27 Selected topics on hydrogen-fuel

PARROTT, ER
0881 42 Hardened steel pipe provides longer life in wear areas of slurry transportation systems

PARRY, GW
0181 223 Technology and use of lignite, Vol. 1 and 2

PARSHAK, AE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PARSLY, LF
0280 274 Technical support to the solvent refined coal (SRC) demonstration projects: assessment of current research and development
0280 317 Assessment of current research and development in support of the US coal liquefaction demonstration plants program

PARSONS, BI
1080 157 Removal of metals and coke during thermal hydrocracking of heavy hydrocarbon oils

PARSONS, DA
0282 36 Filtration in coal liquefaction: preparation of filter aid from filter cake

PARSONS, JR
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

PARTRIDGE, LJ
0177 90 Coal processing technology, Volume 3
0180 5 Production of ammonia synthesis-gas by purification and shift conversion of gas produced from coal
0181 26 Coal-based ammonia/methanol plant has high reliability

PARULEKAR, SJ
0180 82 Multiple steady states in adiabatic gas-liquid-solid reactors
0281 191 Design of coal-liquefaction reactors
0282 62 Steady state thermal behavior of an adiabatic three phase slurry reactor - coal liquefaction under slow hydrogen consumption reaction regime

PARUNGO, FP
0580 .0 Environmental and climatic impact of coal utilization
0681 173 Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM
1078 35 Nucleation properties of fly-ash in a coal-fired power plant plume

PASCHEN, P
0181 219 Coal Technology '81, Vol. 4

PASE, CP
0580 131 Establishing cool-season grasses on mine spoils

PASEK, B
0171 6 Development of the carbon-dioxide-acceptor process directed towards low-sulfur boiler-fuel
0173 5 Production of clean fuel-gas from bituminous coal
0673 17 Low sulfur producer-gas via an improved fluid-bed gasification process

PASHA, ML
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

PASHCHENKO, LV
0381 67 Change in the properties of coals during their preparation for grinding
0679 160 A study of coals of the Donbass with and without a tendency to spontaneous ignition
1078 107 Influence of water on the low-temperature oxidation of coal
1081 186 A study of the kinetics of the low-temperature oxidation of Donbass coals tending and not tending to undergo spontaneous combustion

PASHCHENKOVA, LF
1080 130 Influence of the 'alpha'//1 and 'alpha'//2 fractions on the low temperature carbonization of coal tar pitch

PASHKOV, SA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PASINI, J
0173 9 Preliminary results released for Wyoming in-situ gasification test
0173 14 Underground gasification of coal
0173 33 Directional properties of coal and their utilization in underground gasification experiments
0175 35 A report on progress in underground coal gasification
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

PASRICHA, A
0681 215 Zero discharge water management system

PASS, R
0281 289 Filtering coal liquids: Cleaning of coal oils by filtration

PASTERNAK, A
0173 13 Preliminary coal gasification experiments
0174 48 Methyl alcohol production by in-situ coal gasification
0374 0 Coal utilization symposium - Focus on SO//2 emission control

PASTOR, GR
0177 90 Coal processing technology, Volume 3
0271 0 Development of a process for producing an ashless, low-sulfur-fuel from coal: Autoclave experiments

PATA, M
0181 57 Electrochemical oxidation of coal

PATAKI, K
0676 32 Fluidization technology, volume 2

PATAL, JG
0180 108 Method for feeding caking coal particles to a gasifier

PATAL, KM
0279 180 The use of acetylation of quantitate acid groups in coal derived liquids

PATCH, RW
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
0680 68 Measuring combustion inefficiency based on the solid effluents from a combustor burning coal with limestone

PATCHING, TH
0482 17 Studies of gas sorption and emission on Canadian coals
0781 20 Methods for predicting size degradation of Western Canadian coals
1080 43 Size degradation of bituminous coal from Western-Canada

PATEL, M
0679 95 Evaluation of performance data from fabric filter collectors on coal-fired boilers

PATEL, V
1078 18 The distribution of sulfur in organic fractions of peat: origins of sulfur in coal

PATEL, AS
0180 288 Control strategy for gasification combined-cycle power plants
0181 207 Moving-bed gasification-combined-cycle control study - Volume 1: Results and Conclusions, Case 1 - Air-blown dry-ash operation - Final Report
0181 259 Coal gasification combined cycle power generation simulation
0681 189 Coal Technology '81, Vol. 5

PATEL, JG
0167 0 Coal pretreatment and gasification
0176 16 The IGT Low-Btu-gas process - Design and Economics
0180 158 The U-gas process
0180 188 The U-gas process for chemical manufacture
0180 239 Memphis demonstration plant program for coal gasification

PATEL, KB
0580 48 Surface area and pore volume determination of raw and solvent extracted coal samples

PATEL, KM
0280 260 Solubility increase of coal-derived liquids by silylation and acetylation: intermolecular hydrogen bonding
0282 83 Analytical cleavage of diaryl ethers as models for asphaltene and preasphaltene structures

PATEL, NJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PATEL, SS
0578 104 Environmental assessment data base for coal liquefaction technology: Vol. I. Systems for 14 liquefaction processes
1181 14 Foreign coal liquefaction technology survey and assessment

PATER, K
0178 75 Cleaning producer-gas from the MERC gasifier

PATIGNY, J
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 70 Economic perspectives by European countries in methods of coal gasification at great depths under high pressure

PATIL, D
0282 83 Analytical cleavage of diaryl ethers as models for asphaltene and preasphaltene structures

PATKAR, A
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

PATKE, NG
0181 169 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low sulfur char by flash carbonization of coal.
0182 51 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low-sulfur char by flash carbonization of coal

PATMORE, DJ

0282 141 Catalytic hydrocracking of heavy oils

PATRAKOV, YF
0180 234 Technical and economic indices of the synthesis of hydrocarbons from carbon monoxide and steam

PATRICK, JW
1081 229 The optical anisotropy of coke in relation to metallurgical coke making
1082 11 A scanning electron microscope study of fractured and etched metallurgical coke surfaces

PATRICK, WC
0479 139 Classification of roof falls in coal mines
0480 136 Roof support selection: A look at total cost

PATRUSHEV, SG
0680 181 Semiconductor properties of solid combustible materials

PATTAS, E
0677 56 Technology and use of lignite

PATTEN, J
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

PATTEN, JW
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

PATTERS, DE
0580 0 Environmental and climatic impact of coal utilization

PATTERSON, K
1177 39 Black-coal

PATTERSON, GK
0176 74 Application of special fluidized-bed techniques to coal gasification
0277 132 Fluidization theories and applications

PATTERSON, MC
0681 201 The effect of coal rank on the heat release from coal/oil dispersions

PATTERSON, RC
0174 45 Low-Btu gasification of coal, Phase I, An evaluation for electric-power generation
0179 285 Coal gasification for power-plant fuel
0180 9 A low-Btu coal gasification scheme

PATTERSON, RG
0277 132 Fluidization theories and applications
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

PATTERSON, RK
0181 108 Aerosol emissions near a coal gasification plant in the Kosovo Region, Yugoslavia

PATTERSON, RM
0374 3 First Symposium on Mine and Preparation plant refuse disposal

PATTERSON, WN

0476 23 Second Symposium on Underground Mining

PATTIPATI, RR
0681 16 Devolatilization and combustion of coal in fluidized bed combustors

PATTON, AJ
0881 34 Valve design for slurry systems

PATTON, KM
1081 81 Electrolytic oxidation of anthracite

PATTS, LD
0477 95 Third Symposium on Underground Mining

PATZER, JF
0279 67 Characterization of coal liquefaction catalysts using 1-methyl-naphthalene as a model compound
0280 113 Coal liquefaction catalysts

PAU, J
0176 120 Fate of trace and minor constituents of coal during gasification
0576 36 Initial environmental test plan for source assessment of coal gasification

PAUDLER, WM
0279 62 Nitrogen bases in solvent-refined-coal

PAUL, P
0177 46 Coal - Burn it or convert it?

PAUL, PF
0180 226 Aviation fuels from coal

PAUL, RA
0182 83 The shortest route to commercialization of UCG

PAULENCU, HN
1074 6 Interpreting coal properties for utilization in commercial cokemaking

PAULIK, F
0681 136 Influence of foreign materials upon the thermal decomposition of dolomite, calcite and magnesite. Part III. The effect of the thermal dissociation and sulphation conditions on the capture of sulphur dioxide

PAULIK, J
0681 136 Influence of foreign materials upon the thermal decomposition of dolomite, calcite and magnesite. Part III. The effect of the thermal dissociation and sulphation conditions on the capture of sulphur dioxide

PAULSON, CA
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

PAULSON, LE
0178 35 Sampling, analysis and characterization of effluents from the Grand-Forks Energy Research Center's slagging fixed-bed gasifier
0181 223 Technology and use of lignite, Vol. 1 and 2
0379 128 Removal of sodium from lignite by ion exchanging with calcium chloride solutions
0381 109 Beneficiation of lignite by sodium removal using ion exchange
0677 56 Technology and use of lignite
0876 7 Experiences in transportation of dried low-rank western coals

1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

PAUSHKIN, YM
0179 294 Gasification of low-octane liquid fuels and hydrogenation products to form a high-octane gaseous fuel for internal combustion engines

PAVEL, J
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

PAVELKA, LA
0280 292 Low temperature cleavage reactions of Illinois No. 6 coal

PAVLINOV, AB
1080 175 The nonlinearity of the volt-ampere characteristics of anthracites

PAVLOVICH, ON
1080 213 Rectification of coal-tar anthracene fraction

PAVLYUCHENKO, SG
0379 82 Enhancing drying drum performance

PAWLAK, W
1077 3 Effect of cleavage of ether linkages on physicochemical properties of coals

PAWLOSKI, GA
0182 89 Examination of UCG cavities for the large block test, Centralia, Washington

PAY, DT
1181 14 Foreign coal liquefaction technology survey and assessment

PAYNE, B
0379 19 Recent advances in Canadian coal preparation

PAYNE, HE
0477 93 Third Institute on Coal Mine Health and Safety

PAYNE, LK
0477 106 Surface water quality associated with the surface mining of Iowa coal

PAYNE, RC
0680 189 Design and operation of fluidized bed industrial boilers and hot gas producers

PAYNE, RE
0281 293 Current operating experience of Exxon donor solvent coal liquefaction process

PAYNE, WJ
0477 93 Third Institute on Coal Mine Health and Safety

PAYZANT, JD
1080 47 Analysis of Cold Lake bitumen hydrocarbons by combined GLC-field ionization mass-spectrometry and GLC-electron impact mass-spectrometry

PAZIRANDEH, A
1078 13 Determination of sulfur and moisture in coal using capture gamma-rays

PCHELINA, DP

0178 364 Coal hydrogenation -- present state and prospects
0278 195 Role of hydrogen donors in the liquefaction of coal
0278 196 Molybdenum and iron coal hydrogenation catalysts

PEACH, AR
0981 3 Carboniferous drilling project

PEAK, MJ
0182 10 Isolation of mutagenic aromatic amines from a coal conversion oil by cation exchange chromatography

PEARCE, DC
0481 135 Entry development for longwall mining

PEAREY, JT
0480 188 The Doncaster area and future face design technology

PEARSON, CV
0677 60 Coal-feed component testing for CDIF

PEARSON, DE
0381 16 Reflectance of carbonized vitrinites as a measure of oxidation of a coking coal
0680 10 Spontaneous carbonization of oxidized high-volatile coal by a lightning strike
0680 30 Fourier transform infrared study of the variation in the oxidation of a coking coal
0780 2 Quality of Western Canadian coking coal
1079 68 Mineral matter as a measure of oxidation of a coking coal
1080 146 Anomalous coking properties of the Wolgan Seam, NSW Australia
1181 37 Trends in utilization of British Columbia coal

PEARSON, FH
0474 3 Fifth Symposium on Coal Mine Drainage Research

PEARSON, GL
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

PEARSON, GR
0760 0 Evaluations of some Alberta coal deposits

PEARSON, JN
0779 19 Geological problems associated with the Barnsley seam in the Doncaster area

PEARSON, KH
0681 30 Operating experiences with improved rapping on electrostatic precipitators treating fly ash from high and low sulphur coals

PEARSON, RO
0682 37 The Wellman-Lord SO//2 recovery process

PEAVY, HS
0881 9 Water pollution potential of coal-slurry pipelines
0882 11 Water quality as a factor in the refuse and disposal of coal slurry water

PECK, RE
0582 6 The IIT flue gas desulfurization process
0679 91 Appearance of nitric-oxide and cyanide in one-dimensional coal dust/oxidizer flames
0681 132 Development of an aerodynamic levitation technique to study coal particle combustion

PECKHAM, R
0878 33 United-Kingdom coals ports face export challenge
0878 34 Shell Coal International: New Maasvlakte terminal

PEDERSEN, D
0581 15 Methanogenesis in freshwater sediments: inherent variability and effects of environmental contaminants

PEDERSEN, K
0180 237 Catalytic aspects of high temperature methanation

PEDERSEN, GC
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

PEDERSON, RJ
0181 223 Technology and use of lignite, Vol. 1 and 2

PEDLOW, GW
0477 103 A peat island hypothesis for the formation of thick coal

PEDRONCELLI, EJ
0481 40 Tests on the cutting performance of a continuous miner

PEDUZZI, MP
0576 9 An environmental analysis technique for coal conversion process studies

PEELE, ER
0680 83 Respirable aerosols from fluidized bed coal combustion - 1. Sampling methodology for an 18-inch experimental fluidized bed coal combustor

PEIRCE, M
0781 10 Distributions of trace elements in Western Canadian coal ashes

PEIRCE, TJ
1081 230 An interpretation of the breakage behaviour of metallurgical coke

PELCZARSKI, EA
0174 12 Coal processing technology

PELIPETZ, MG
0250 0 Mechanism of coal hydrogenation

PELISSIER, P
0480 152 Face-ends

PELL, M
0171 6 Development of the carbon-dioxide-acceptor process directed towards low-sulfur boiler-fuel
0173 5 Production of clean fuel-gas from bituminous coal
0277 125 Zinc-halide hydrocracking process for distillate fuels from coal, Annual technical progress report for 1976, Including the quarter ending January 1977
0278 145 Zinc-halide hydrocracking process for distillate fuels from coal, Annual Technical Progress report, Feb. 1977 - Jan. 1978
0279 36 Zinc-halide hydrocracking process for distillate fuels from coal. Annual technical progress report for February 1978 - January 1979
0280 49 Gasoline from coal via molten zinc chloride hydrocracking
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979

0673 17 Low sulfur producer-gas via an improved fluid-bed gasification process
0681 189 Coal Technology '81, Vol. 5

PELLA, PA
0581 3 Preconcentration of trace metals in environmental and biological samples by cation exchange resin filters for x-ray spectrometry

PELLEGRIN, MT
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

PELLET, RJ
0279 218 Coal liquefaction catalyst development, Quarterly Progress Report No. 1, March - June, 1979
0279 219 Coal liquefaction catalyst development, Quarter Progress Report No. 2, July - September, 1979
0279 220 Coal liquefaction catalyst development, Quarterly Progress Report No. 3, October - December, 1979

PELLEY, CR
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky
0678 2 Utilization characteristics of blending Eastern and Western-coals

PELLIZZARI, ED
0178 37 Identification of organic constituents in aqueous effluents from energy-related processes.
0178 324 Results of a groundwater quality study near an underground coal gasification experiment (Hoe-Creek I)

PELOFSKY, AH
1177 44 Symposium on coal dilemma: How and where to use it

PELOVSKI, YG
0380 107 Process for thermal decomposition of phsophogypsum

PELROY, RA
0281 228 In-vitro assay for mutagenic activity and gas chromatographic-mass spectral analysis of coal liquefaction material and the products resulting from its hydrogenation

PELUSO, M
0181 219 Coal Technology '81, Vol. 4
0279 70 Antisolvent deashing
0279 124 The C-E Lummus clean fuel from coal process

PELYUKPASHIDI, RI
0479 161 Use of experiment plannning in processing rock-debris from the Ekibastuz coalfield

PELZER, HK
0476 30 Symposium for Continuous Mining in Open Pit Mines Planning and Facilities of storage yards coal preparation and gasification

PENDLEY, RE
1180 29 American Indians and national energy policy

PENG, C
1081 17 Classification of bituminous coals: Application of the technique of optimal sections in coal classification

PENG, SS
0477 28 Shortwall mining in the United-States - A record of failure and success
0477 54 Roof control studies at Olga No. 1 Coal Mine, Coalwood, WV
0477 108 Review of the shortwall mining in the United-States
0477 140 Roof bolting patterns at the four-way entry intersections

0478 313 Roof bolting patterns at three-way entry intersections
0479 249 Measurement of the support resistance of shortwall chocks and its applications
0480 119 Getting the most from multiple-seam reserves
0481 65 Predicting surface subsidence for damage prevention

PENNACCHI, A
1080 192 Characterization of coals by infrared spectroscopy

PENNELL, SH
0578 78 Comprehensive bibliography and index of environmental information for the Beluga-Susitna, Nenana and Western Artic Coal Fields, Volume II
0579 15 Comprehensive bibliography and index of environmental information for the Beluga-Susitna, Nenana and Western Artic coal fields. Volume III

PENNER, RC
0178 228 Analysis and interpretation of laboratory coal gasification simulation data
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

PENNER, SS
0180 145 Research needs for coal gasification and coal liquefaction

PENNINGTON, D
0475 7 Third Symposium on Surface-mining and reclamation, Volume I
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

PENNINGTON, JR
0180 100 In Situ method of processing bituminous coal

PENNINGTON, RE
0172 23 Integrated catalytic gasification process
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

PENNLINE, HW
0174 55 Synthesis of methane in hot gas recycle-reactor pilot plant tests
0177 301 Deacitvation of Raney nickel methanation catalyst
0178 272 Coal processing technology, Volume IV
0179 16 Operation of a tube wall methanation reactor
0280 295 Synthesis gas conversion to gasoline range hydrocarbons over medium pore zeolite catalysts containing 3d-metals and bimetallics

PENROSE, RG
0474 3 Fifth Symposium on Coal Mine Drainage Research

PENSTERMACHER, JE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PEPPAS, NA
1081 181 Cross-linked structures in coals: models and preliminary experimental data

PEPPER, G
0580 51 Trace Element Analysis

PEPPERS, LC
0876 2 Over one billion tons of coal in 1985: Can the railroad industry handle it?

PERCIVAL, G

0175 19 Coal gasification

PEREIRA, J
0676 31 Fluidization technology, volume 1

PEREL'MAN, EB
0279 142 Catalytic alkenylation of fluorene by allyl alcohol

PERELLA, AV
0278 85 Economic screening evaluation of upgrading coal liquids to turbine fuels

PEREPELITSA, AG
1077 82 Low temperature oxidation of coals in relation to the solution of problems of their rational storage

PERETTI, KH
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

PEREVERZENTSEV, VP
1080 185 Infulence of the mechanochemical oxidation of coke-pitch compositions on the specific electrical resistance of carbon materials

PEREVERZEV, GA
0377 65 Some electrical characteristics as possible parameters for the classification of anthracites
1077 77 Rational parameters of a genetic and industrial classification of coals
1080 181 The thermoelectric properties of anthracites

PEREZ, JW
0380 24 A preliminary analysis of smooth roll crushers
0781 15 Breakage parameters of some materials in smooth roll crushers

PEREZHILOV, AE
0381 85 A study of the influence of physicochemical actions on the winnability, grade, enrichability and quality of coals

PERFETTI, P
0278 121 Trace-element distribution in various solvent-refined-coal fractions as a function of the feed-coal

PERKINS, RA
0176 42 Metal dusting corrosion in coal gasification environments
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 132 Thermodynamic phase stability diagrams for the analysis of corrosion reactions in coal gasification/combustion atmospheres
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0679 180 Discharge and corrosion characteristics of slagging metal electrodes for MHD power generators

PERKOVA, GA
0179 307 A study of the processes of the thermal and gas-thermal refining of imperfect carbon phases

PERLEE, HE
0477 39 Cylindrical duct fire spread
0680 213 A transient dust-flame model: Application to coal-dust flames

PERLMAN, M
0477 150 Study and analysis of an automatic control system for a boring type continuous miner, Final technical report

PERLMUTTER, DD
0181 14 A new look at an old fossil: Kinetics of coal processing
0182 0 Model for coal oxidation kinetics. 1 Reaction under chemical control
0182 1 Model for coal oxidation kinetics. 2. An effectiveness factor interpretation
1079 45 On the kinetics of coal oxidation

PERRUSSEL, RE
0271 0 Development of a process for producing an ashless, low-sulfur-fuel from coal: Autoclave experiments

PERRY, H
0178 327 Clean fuels from coal
0180 25 Advances in synthetic fuels technology: progress in USA/DOE programs
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas
1180 24 Liquid fuel supplies

PERRY, AM
1177 47 Net energy analysis of five energy systems

PERRY, EF
0479 216 Relationship of overburden analysis to minesoil properties in post mining land use

PERRY, JH
0475 10 First Symposium on Underground Mining, Volume II
0478 174 Methane drainage study in the Sunnyside coalbed, Utah

PERRY, MG
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

PERSHING, DW
0578 41 Pollutant control through staged combustion of pulverized coal
0580 109 Mechanisms of nitrogen oxide (NO//x) formation and control: Alternative and and petroleum-derived liquid fuels
0581 65 NO//x formation from different coal types in a bench-scale reactor. Final report on stage 1 of International Energy Project for control of nitrogen oxide emissions during coal combustion
0679 2 Relative contributions of volatile nitrogen and char nitrogen to NO//x emissions from pulverized coal flames

PERZAK, FJ
0482 106 Testing of fire-resistant conveyor belting

PESOCHIN, VR
0678 208 Combustion of porous particles

PESTRYAKOV, BV
1077 14 NMR study of the adsorption of water by coal

PETELA, R
0380 18 Atomization of coal-liquid mixtures

PETER, S
0176 105 Catalytic gasification of fossil-fuels with steam
0178 43 Catalytic gasification of coal with high-pressure steam

PETERS, E
0177 49 Evaluation of gasification reactivities of coals by differential-thermal-analysis

PETERS, W
0173 15 Present situation of the generation of gas from coal through steam gasification using the heat from high temperature nuclear reactors
0173 19 Fundamental studies on coal gasification in the utilization of thermal energy from nuclear high-temperature reactors
0177 23 Trends in coal gasification techniques and hydrogenation
0177 41 Prospects for coal gasification and coal liquefaction on the basis of outlook for bituminous coal
0180 316 Coal as an oil or gas replacement
0181 231 Status of steam gasification using heat from high temperature nuclear reactors
1178 37 Research and development in the field of coal technology
1181 42 Technical and economic prospects of coal conversion and utilization from the viewpoint of German coal industry

PETERS, AW
0277 1 Conversion of coal derived liquids with a crystalline alumino-silicate zeolite catalyst

PETERS, BC
0276 10 Chemicals from coal, Quarterly Technical Report, April - June 1976
0277 95 Chemicals from coal, Final report based on HRI H-Coal product
0278 59 The DOW coal liquefaction process

PETERS, MH
0682 44 Simulation of particulate removal in gas-solid fluidized beds

PETERS, MS
0270 2 Final Report of the Advisory Committee on project gasoline, National Academy of Engineering

PETERS, RL
1081 103 X-ray absorption spectroscopic investigation of trace vanadium sites in coal

PETERS, TW
0478 157 Mine drainage problems in North-Derbyshire
0877 6 Shirebrook Pneumatic coal transport scheme

PETERS, WA
0177 130 Basic studies of coal pyrolysis and hydrogasification, Quarterly Progress Report for the period Jan. 1977 - March 1977
0178 137 Basic studies of coal pyrolysis and hydrogasification, Quarterly Progress Report for the period Oct. 1977 - Dec. 1977
0178 376 Product composition and kinetics of lignite pyrolysis
0180 113 Effect of calcined dolomite on the fluidized bed pyrolysis of coal
0180 285 Critical studies in the rapid pyrolysis and hydropyrolysis of coal - Project Report July 1, 1979 - March 31, 1980
0182 7 Mineral matter effects on the rapid pyrolysis and hydropyrolysis of a bituminous coal. 1. Effects on yields of char, tar and light gaseous volatiles
0278 222 A comparison of the rapid pyrolysis of a lignite and a bituminous coal
0282 93 Coal pyrolysis by hot dolomitic solids from a fluidized bed combustor
0680 38 Product compositions in rapid hydropyrolysis of coal
1081 90 Effects of calcium minerals on the rapid pyrolysis of a bituminous coal

PETERS, WD
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

PETERSDORF, RJ
0680 226 Cofiring coal and refuse-derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation

PETERSEN, V
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 56 Circulating fluid bed combustion for energy

PETERSEN, CK
0677 121 Corrosion and deposits in MHD generator systems

PETERSEN, EE
0279 7 Change in physical characteristics of Roland seam coal with progressive solvent extraction
0279 8 Surface area variations of coal during solvent-extraction

PETERSEN, MR
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0281 228 In-vitro assay for mutagenic activity and gas chromatographic-mass spectral analysis of coal liquefaction material and the products resulting from its hydrogenation

PETERSON, R
0475 10 First Symposium on Underground Mining, Volume II

PETERSON, CH
0177 209 Conversion of Rapid-City pilot-plant. Phase 1. Final Report, June - Dec. 1977
0580 163 Fluid-bed combustion and gasification solids disposal
0675 6 Fluidized-bed combustion process evaluation
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

PETERSON, CK
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PETERSON, CR
0778 22 Coal resources of the Americas. Selected papers

PETERSON, CW
0278 203 Chemicals from coal

PETERSON, GD
0279 131 Coal - an alternate fuel for thermal enhanced oil recovery steam generation - final report

PETERSON, GF
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

PETERSON, GR
0178 272 Coal processing technology, Volume IV
0178 323 Control of hydrocarbon and carbon-monoxide emissions in the tail-gases from coal gasification facilities
0180 76 Costs of environmental control processes for low Btu coal gasification plants
0277 27 Evaluation of a commercial-scale hydrocarbonization process to produce clean-char, oil and pipeline-gas from coal
0277 32 Hydrocarbonization process evaluation report, Volume II, Evaluation of process feasibility
0379 0 Survey and evaluation of current and potential coal beneficiation processes
0379 43 Advances in coal beneficiation
0580 128 Costs and technical characteristics of environmental control processes for low-Btu coal gasification plants

PETERSON, JH
0176 14 Evaluation of the calcium aluminate bond phase in refractory-castables as related to their use in the Synthane

gasifier
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

PETERSON, JR
0677 46 Coal fired combined-cycle for electric-power generation
0679 74 Commercial power-plant design development for the coal-fired combined-cycle

PETERSON, MJ
1069 0 Spectrochemical analyses of coal-ash for trace elements

PETERSON, PR
0580 36 Resources information data base

PETERSON, SD
0977 1 Seismic guided waves in coal seams

PETERSON, WJ
0181 91 Effect of selected catalysts on hydropyrolysis of Utah bituminous and Montana rosebud coals
0282 53 Flash hydropyrolysis of Western Kentucky bituminous coal

PETERSON, WM
0778 33 Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North-Dakota

PETIT, W
0580 58 Laboratory support

PETKEVICH, GI
1080 170 Photoelectric effect in coals

PETRAKIS, L
0181 32 Free radicals in coals and coal conversion. 3. Investigation of the free radicals of selected macerals upon pyrolysis
0278 74 An ESR investigation of free radicals in coals and in coal conversions
0279 43 E.S.R. investigation of free radicals in solvent-refined-coal materials
0280 13 Free radicals in coals and coal conversion 2. Effect of liquefaction processing conditions on the formation and quenching of coal free radicals
0280 15 Free radicals in coals and coal conversion
0280 19 Structural characterization of filter cake solids from a solvent-refined coal process (SRC-I)
0281 4 Formation and behavior of coal free radicals in pyrolysis and liquefaction conditions
0281 41 Free radicals in coals and coal conversion. 4. Investigation of the free radicals in selected macerals upon liquefaction
0281 95 Free radicals in coal and coal conversions. 5. Methodology for the in-situ investigation of free radicals in coal depolymerization under SRC-II preheater/reactor conditions
0281 96 Free radicals in coal and coal conversions. 6. Effects of liquefaction process variables on the in-situ observation of free radicals
0281 317 Electron spin resonance (ESR) characterization of coal and coal conversions
0282 5 Free radicals in coal and coal conversions. 7. An in-depth experimental investigation and statistical correlative model of the effects of residence time, temperature and solvents
1082 22 Carbon-13 nuclear magnetic resonance characterization of coal macerals by magic-angle spinning

PETRANOFF, TV
0480 113 The effects of a rider coal and splay deposits on roof conditions in the Stansbury Mine
0780 17 Wave-dominated deltas: an important economic depositional model for upper cretaceous of southwestern Wyoming

PETRENKO, IG
0163 1 Underground processing of fuels

PETRICHCHEV, KP
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin

PETRICHENKO, ED
0279 142 Catalytic alkenylation of fluorene by allyl alcohol

PETRICK, M
0678 185 Open-cycle magnetohydrodynamic electrical power generation
0679 51 Liquid-metal MHD energy coversion status report March 1978 - September 1977
0680 232 Coal-fired open-cycle liquid-metal magnetohydrodynamic topping cycle for retrofit of steam power plants

PETRIE, J
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

PETRIE, TW
0178 212 Effect of carbon-monoxide on the reaction of hydrogen-sulfide and calcium-oxide
0579 41 Environmental impact of synthetic-fuels development
0581 32 Rate of reaction of hydrogen sulfide-carbonyl sulfide mixtures with fully calcined dolomite

PETRIK, GK
0181 183 A study of the influence of the conditions in the low-temperature catalytic hydrogenation of cannel coal on the properties of the hydrogenate
0280 316 An investigation of the products of the low-temperature catalytic hydrogenation of Donbass coals
1077 82 Low temperature oxidation of coals in relation to the solution of problems of their rational storage

PETRILLO, JL
0679 122 Preparing new source review applications for coal-fired power-plants

PETROV, K
1082 2 Structural study of coals by means of directly-prepared potassium-coal adducts

PETROV, NN
0477 65 Modeling disturbances in a mine ventilation system caused by gas-bursts

PETROV, NV
1079 193 Influence of some factors on the yield of coke from pitch-coke compositions
1080 97 Influence of the degree of compaction of carbonaceous compositions on the increase in the yield of coke due to the binder
1081 150 The theory of the caking of carbon compositions and coal charges

PETROV, VG
0677 149 Carbon-dioxide magnetohydrodynamic laser

PETROV, YI
0278 187 Hydrogenation of oligomers of dihydric phenols

PETROVA, OM
0181 152 Influence of the rate of rise in temperature on the composition and properties of carbonized products

PETROVICH, V
0380 60 Beneficiation of coal and metallic and non-metallic ores by froth flotation process using polyhydroxy alkyl xanthate depressants
0380 61 Beneficiation of metallic ores by froth flotation using polyhdroxy amine depressants

PETRUS, CA
0476 22 Sixth Symposium on Coal Mine Drainage Research

PETRY, EF
0877 1 Update on slurry transportation from face to cleaning plant

PETSINGER, RE
0175 11 Combining capital, technology, and markets to build commercial coal gasification plants

PETTERSON, WC
0281 212 Co-cracking of ethane and naphtha in millisecond pyrolysis furnaces

PETTI, VJ
0681 17 Early operation of the Celanese Fibers Company coal-fired boiler using the dry flue gas cleaning system

PETTIT, F
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

PETTIT, R
0580 58 Laboratory support

PETTIT, FS
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

PETTY, SW
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 237 Electrode development for coal-fired MHD-generators

PETUKHOV, VN
1078 106 Question of the use of the suspension effect for determining the sign of the charge on the surface of coal particles
1079 142 Relationship between the physico-chemical properties of coal vitrinites and the adsorption capacity and flotability of the coal

PEVEAR, DR
0780 5 Kaolinite, smectite and k-rectorite in bentonites: relation to coal rank at Tulameen, British-Columbia

PEYRER, HT
0178 89 Symposium on Coal Refining, Proceedings

PEYTON, TO
0576 34 Environmental research to support the development of fossil energy technology options. Final report

PEZ, GP
0280 267 Novel anionic phosphine transition metal hydride complexes and their application to the catalytic hydrogenation of polar organic compounds

PFAENDER, FK
0579 83 Treatability and assessment of coal conversion wastewaters, phase 1
0580 168 An evaluation of the biological treatability of coal conversion wastewater

PFANNENSTIEL, PK
0878 25 Coal cutting with very high pressure water-jets

0879 23 Bulk conveyance and underground transports

PFEFFER, R
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

PFEIFFER, HG
0181 50 The conversion of coal to gas and liquid fuels

PFEIFFER, NR
0181 219 Coal Technology '81, Vol. 4

PFLIEGL, R
1081 201 Experimental results of soft x-ray emission spectra from iron-aluminium (FeAl) cobalt-aluminium (CoAl) and nickel-aluminium (NiAl)

PFUDERER, HA
0577 26 Environmental, Health, and Control Aspects of Coal Conversion: An information overview, Vol. 1
0577 32 Environmental, Health, and Control Aspects of coal conversion: An information overview, Vol. 2

PHELPS, AV
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PHELPS, LB
0778 11 Some relationships between stripmining and ground-water

PHELTS, E
0180 195 Entrained gasification combined-cycle control study, Volume 1: Summary of results and conclusions

PHEN, RL
0177 122 Evaluation of ERDA-sponsored coal-feed system development

PHILBIN, PW
0978 1 In-situ analysis of coal using a 252Cf-Ge(Li) Borehole-Sonde

PHILIP, CV
0278 71 Chemistry of Texas-lignite liquefaction in a hydrogen-donor solvent system
0279 168 Separation of coal-derived liquids by gel permeation chromatography
0280 34 Dissolution of wet Texas lignite in tetralin
0280 291 Liquid sulfur dioxide - as an agent for upgrading coal liquid
0280 339 Liquefaction of lignite
0281 67 Liquid sulphur dioxide - a reagent for the separation of coal liquids
0281 246 Liquid sulfur dioxide as an agent for upgrading coal liquid
0282 34 Chemistry of Texas lignite liquefaction in a hydrogen-donor solvent system
0282 35 Separation of coal-derived liquids by gel permeation chromatography
1077 52 Characterization of liquids and gases obtained by hydrogenating lumps of Texas-lignite

PHILIP, RP
0281 81 Hydrogenation of Tasmanian alginite - analysis of hexane-soluble products by thermal distillation-gas chromatography-mass spectrometry

PHILIPON, P
0280 140 A novel high yield electric furnace for the calcination of carbonaceous materials

PHILIPP, HD
1177 13 Hydrogen cycle peak shaving on the New-York state grid using fuel cells

PHILIPS, NP

0177 294 In-situ coal gasification: Status of technology and environmental impact

PHILLIPS, DF
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

PHILLIPS, EL
0475 9 First Symposium on Underground Mining, Volume I

PHILLIPS, EM
0280 42 A comparative study of coal liquefaction performance and economics for solvent refined coal-based processes

PHILLIPS, KE
0377 80 Granular-bed filter development program: Filter front-face cleaning experiments
0676 25 Energy conversion from coal utilizing CPU-400 Technology
0677 141 Coal feeding and pneumatic transport
0677 221 Energy conversion from coal utilizing CPU-400 technology, Final report, Volume 1
0677 226 Energy Conversion from Coal Utilizing CPU-400 Technology, Final report, Volume 2
0678 157 Granular-bed filter development program. Final report

PHILLIPS, LR
0178 36 Analytical study of the effluents from a high temperature entrained-flow gasifier
0180 75 Analytical study of the effluents from a high-temperature entrained flow gasifier

PHILLIPS, PJ
0376 3 Second Symposium on Coal Preparation
0377 1 How Blending improves coals' quality
0380 3 Economic penalties attributable to ash content of steam coals

PHILLIPS, RJ
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

PHILLIPS, WR
0177 256 Proceedings of the third annual underground coal conversion symposium

PHILP, P
0282 58 Effects of petrographic constituents in three Yallourn brown coal lithotypes on hydroliquefaction processes

PHINNEY, JA
0173 12 Symposium papers, Clean fuels from coal

PHUNG, DL
1179 50 Three modes of energy cost analysis: Then-current, base year, and perpetual- constant dollar

PIAN, CCP
0679 4 MHD performance calculations with oxygen enrichment
0679 5 Performance optimization of an MHD generator with physical constraints

PIASCIK, TM
0181 219 Coal Technology '81, Vol. 4

PIASECKI, EJ
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

PICARD, JL
0382 11 Performance evaluation of gravity separators in Canadian washeries
1059 2 A laboratory study of the binderless briquetting of Western Canadian coals

PICARDY, JC
0180 78 Coal Technology '80

PICHLER, H
0275 11 The production of liquid-fuels from coal in Europe and Africa

PICHUGIN, VP
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

PICKEL, TW
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

PICKERING, AJ
0482 75 Mine ventilation - past, present and future

PICKFORD, AH
0477 183 Braking system problems off-highway vehicles

PIDSKALNY, RW
0980 6 Oilfield rig equipment and technology in coal exploration

PIEPHO, RR
0681 188 Coal Technology '81, Vol. 3

PIERANTOZZI, R
0280 182 Polymer-bound trinuclear metal cluster catalysts

PIERCE, BL
0181 125 Westinghouse fluidized bed coal gasification process for phosphoric acid fuel cell power plant

PIERCE, JB
0281 277 Research in the electrochemistry of coal-derived liquids

PIERRE, DA
1177 2 Dynamic modeling and control of magnetohydrodynamic/steam systems

PIERSON, ES
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0676 33 Liquid metal MHD coupled to coal-fired fluidized-bed combustors
0679 51 Liquid-metal MHD energy coversion status report March 1978 - September 1977
0680 198 Liquid-metal MHD for solar and coal: system and component status
0680 224 New liquid-metal MHD concepts for solar and coal
0680 232 Coal-fired open-cycle liquid-metal magnetohydrodynamic topping cycle for retrofit of steam power plants

PIETERSON, R
0180 212 Underground gasification of coal: The filling of dipping underground cavities

PIETSCH, T
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

PIGFORD, TH
1078 88 Radioactivity in stored coal-ash and in nuclear-power waste

PIGG, JC
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

PIGULEVSKAYA, LV
0781 37 A comparative study of the compositions of modern and fossil peats
1079 188 A study of the chemical composition of buried high-moor and transitional peats

PILAT, MJ
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

PILCH, W
0381 108 MHD and paramagnetic liquid separation of coal

PILLAI, K
0677 232 Engineer, design, construct, test and evaluate a pressurized fluidized-bed pilot-plant using high-sulfur-coal for production of electric-power, Phase 1, Preliminary engineering, PFB Combustor/Heat-exchanger rig test at Leatherhead

PILLAI, KK
0581 63 Particulate emissions from a pressurized fluidized-bed coal combustor
0680 197 Emissions from a pressurized fluidized bed coal combustor
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 43 Burning rates of coal in fluidized-bed combustion
0681 153 Heat transfer to cooling coils in the splash zone of a pressurized fluidized bed combustor
0781 29 The Influence of coal type on devolatilization and combustion in fluidized beds

PILLSBURY, PW
0176 111 Advanced coal gasification system for electric-power generation. Technical status report: Development of full-size gas turbine combustors using simulated low-Btu fuel gas at 350-degrees-F.
0680 40 Gas turbine combustor performance on synthetic fuels

PILON, CA
0977 0 Bibliography and Index of Coal in Saskatchewan and Adjoining Provinces and States

PIMENTEL, RA
0478 267 Longwall conveyor system study, Vol. II, final technical report
0479 10 Analysis of U.S. underground thin seam mining potential. Volume 1. Text. Final technical report. December 1978
0479 12 Analysis of the economic feasibility of the Kloswall Longwall Mining System. Final technical report, Volume 1. December 1978
0479 36 Analysis of U.S. underground thin seam mining potential. Volume II - Appendices. Final Technical Report, December 1978
0479 46 Analysis of U.S. underground thin seam mining potential. Volume III. Data base final technical report. December 1978
0878 46 Longwall conveyor system study, Vol. 1, final technical report

PINGS, WB
0173 2 The Energy Crisis and Coal Gasification

PINKERTON, JD
0177 166 Catalytic conversion of coal energy to hydrogen, Project final report

PINKHASIK, DS
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PINTO, A
0182 71 Synthesis for producing carbon compounds from a carbon oxide/hydrogen synthesis gas

PINTO, FJP
1178 7 Energy for the third world

PINTUS, P
0478 73 Health and safety in the Canadian Mining Industry

PIONKE, HB
0580 135 Controlling the rate of acid loss from strip mine spoil

PIPERNO, E
1073 19 Trace-element emissions: Aspects of environmental toxicology

PIPIS, JS
0881 2 How to model your coal-handling system to optimize availability, cut costly time

PIRARD, JP
0180 274 Coal gasification by steam/air mixtures and under pressure

PIRTSKHALAVA, TG
0478 166 Thermophysical properties of crushed stowing materials and hardened stowing

PIRWITZ, WW
0180 78 Coal Technology '80

PISAREV, YK
0278 47 Thermal processing of sludges from the coal liquefaction process

PISHCHIKOV, SI
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

PISKORZ, J
0282 188 Flash pyrolysis of Canadian coals

PISLEWSKI, N
1082 58 Molecular structure of bituminous coal studied with pulse nuclear magnetic resonance

PISTOLE, H
0477 114 Let's make the most of our coal resources

PITCHER, DH
0980 0 Tridem airborne conductivity mapping as a lignite exploration method

PITCHER, ND
0177 207 BI-GAS high temperature thermocouples design considerations and operating experience

PITIN, RN
0163 1 Underground processing of fuels

PITRE, EM
0180 217 Analytical procedures used in characterization of knockout-pot condensates from the Pricetown I underground gasification
0180 218 Characterization of Pricetown I underground gasification knockout pot condensates

PITT, R
0479 165 Tunnels and tunnelling
0479 180 The South-Wales coalfield

PITT, GJ
1077 64 The standardization of petrographic analysis of coal

PITT, WW
0277 53 Organics in aqueous process streams of a coal conversion bench-scale unit using the hydrocarbonization process: HPLC and GC/MS analysis
0577 11 Characterization of organics in aqueous streams of coal conversion processes
1079 131 Characterization of organics in aqueous effluents of coal conversion processes

PITTMAN, CU
0180 183 Evidence indicating metal clusters are catalysts in organic reactions

PITTS, JD
0882 23 The effect of particle size distribution on the economics of short distance coal slurry pipelines

PITTS, WS
0276 37 Effect of coal minerals on reaction rates during coal liquefaction
0276 43 Kinetics and solubility of hydrogen in coal liquefaction reactions

PIULLE, W
0677 261 Fuel and ash evaluation to predict electrostatic precipitator performance: a progress report

PIVER, WT
0576 3 A program for technology assessment for environmental health

PIVIROTTO, RL
0381 105 Difference in the behavior of 200 X 0 Kentucky No. 9 and Illinois No. 6 coals in surface controlled beneficiation

PLACER, FM
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

PLANK, CA
0680 82 Application test burn of an emulsified coal/oil/water mixture

PLANTE, ER
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0680 214 Slag and metal oxide vaporization in reactive atmospheres
1076 8 Crystallization and vaporization studies on synthetic coal-slag compositions

PLANTE, JJM
0177 140 Status of selected coal conversion technologies

PLANTS, KD
0173 28 An economic evaluation of MHD-steam powerplants employing coal gasification
0177 139 Economic evaluations of intermediate-Btu-gas plants meeting the energy demands
0379 10 Chemical desulfurization: a misunderstood technology

PLANTZ, AR
0277 142 Low-temperature pyrolysis of synthoil centrifuged solids

PLASS, L
0681 56 Circulating fluid bed combustion for energy

PLASS, WT
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

PLATONOV, VV
0179 257 On the structure of the hydrocarbons of gas coal primary tar

PLATT, AM
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

PLATT, RJ
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

PLAZA, H
1177 47 Net energy analysis of five energy systems

PLETT, EG
0179 145 Development of a bench-scale fluidized-bed-coal-gasifier and gas burner system

PLICHKO, VS
0279 186 The question of the mechanism of the hydrogenolysis of thiophene

PLITSYN, VT
0679 130 Change in the electric potential of solid fuels on their combustion and gasification

PLITT, LR
0380 23 Interrelationship between bond and hardgrove grindabilities
0382 16 SPOC and the Canadian coal industry

PLOCK, EV
0280 112 Coal-based emulsions: A new generation of Hybrid fuels

PLOGMANN, H
0677 82 Analysis of mineral matter in coals of the Ruhr under gasification conditions

PLOSKOGOLOVYI, EP
1078 147 Change in the properties of coal dust after an explosion

PLOTKIN, SE
0579 36 Water and energy in the western coal lands

PLOUF, TM
0380 110 Froth flotation techniques reduce sulfur and ash

PLUMLEE, KW
0280 307 Exxon Donor Solvent coal liquefaction process: development program status
0281 49 Donor solvent coal liquefaction
0282 72 Solvent quality effects in the Exxon Donor Solvent coal liquefaction process

PLUMLEY, AL
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

0677 90 Improved thermal efficiency by control of factors affecting metal wastage in pulverized coal-fired steam generators
0680 226 Cofiring coal and refuse-derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation

PLUMLEY, DR
0181 191 Coal gasification and power generation
0181 233 The cool water coal gasification combined-cycle project

PLUMMER, AH
0881 36 Effluent characteristics and discharge permit considerations for the ETSI coal slurry pipeline
0882 13 Coal slurry dewatering operations wastewater treatability studies

PLUMMER, CA
0175 84 Packed bed reactor shape, final report, Series No. 1:C-1

PLUT, F
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

PLUZHNIKOV, AI
0380 142 Effect of ash levels in run-of-mine coal on the quality, quantity and technical-economic operating indices of a washery
1080 117 The change in the properties of concentrates from Karaganda coals of different types according to separation densities

POAD, ME
0475 9 First Symposium on Underground Mining, Volume I

POBEDONOSTSEVA, DI
1078 155 Non-fuel processing of coals

POBEDONOSTSEVA, NI
0381 75 Intensification of the process of oxidation of brown coals under the action of hydrodynamic forces
1078 155 Non-fuel processing of coals
1081 188 An investigation of the properties of coal-alkali reagents from a number of coals

POBEDONOSTSEVA, OI
0381 75 Intensification of the process of oxidation of brown coals under the action of hydrodynamic forces
1081 188 An investigation of the properties of coal-alkali reagents from a number of coals

POBER, RL
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

POBEREZHSKIY, LP
0675 13 Thermophysical and electrophysical properties of combustion products with seed
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 220 Composition and properties of working fluids in open-cycle magnetohydrodynamic generators. U.S. - U.S.S.R. cooperative program in MHD power generation
0875 1 Study of the electrical conductivity of a plasma in combustion products

POCHAN, MJ
0178 220 A synopsis of C-MU technical contributions to the DOE Coal Gasification Environmental Program, Second Annual Report for July 1977 - July 1978
0178 275 Determination of cyanide levels in Hygas wastewater
0178 300 Computer-aided analysis of coal gasification pilot-plant data bases
0179 131 Operation of a sampling train for the analysis of environmental species in coal gasification gas-phase process streams

POCHAPSKY, TC
0280 223 Development of a correlation between slurry oil composition and process performance, Topical report 1: analysis of slurry recyle oils from H-coal PDU run 5
0280 257 Development of a correlation between slurry oil composition and process performance. Topical Report 2. Analyses of slurry recycle oils from H-coal PDU run 8
0281 103 Composition and performance of distillate recycle solvents from the SRC-I process

POCHCIAL, E
0679 128 Power evaluation of an experimental specimen of the Ugole K-4 central heating stove in the combustion of Polish cannel coals

POCOCK, J
0482 56 Drifting through water-bearing strata

PODALL, HE
0173 12 Symposium papers, Clean fuels from coal

PODDAR, SK
0279 187 Calcium carbonate deposit formation during the liquefaction of low rank coals
0281 358 Liquefaction process

PODIL'CHUK, YN
0480 195 Investigation of the stressed state of a gas-saturated rock mass near an ellipsoidal working
0778 32 Stress state of an untouched bed layer and surrounding rocks

PODOLSKI, WF
0175 29 Coal technology semiannual report
0574 32 Overview of R & D needs on environmental aspects of coal conversion processes
0677 153 Design status of the pressurized-fluidized-bed combustion component test and integration unit
0678 31 Pressurized fluidized-bed combustion/component test and integration unit preliminary design report

PODOROZHANSKII, MM
0177 213 Separation of gaseous mixtures by the method of nonthermal short-cycle adsorption
0279 186 The question of the mechanism of the hydrogenolysis of thiophene

POEPPEL, RB
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 196 Corrosion resistance of refractories exposed to molten acidic coal-ash slags
0178 201 Evaluation of ceramic refractories for slagging gasifiers: Summary of progress to date
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0180 154 Utilization of coal slag from pressurized coal-gasification plants
0679 38 Evaluation of ceramic refractories for corrosion behavior by molten slag-seed mixture of a coal-fired open-cycle MHD system

POGORELOV, AG
0279 156 Optimization of the process of isolating indole from hard-coal tar fractions by liquid extraction

POGUE, DR
0178 216 Sulfuric-acid plants for handling hydrogen-sulfide gases

POHL, S
0175 0 A system for gasifying fuels in fine-grain form.

POHL, JH
0678 92 The rates and mechanisms of pulverized coal combustion - First annual report

0679 186 The effect of mineral matter and flame characteristics on the size of fly-ash produced from pulverized fuel combustion
0681 15 Direct observations of devolatilizing pulverized coal particles in a combustion environment

POHLENZ, JB
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

POIRIER, MA
0281 174 Separation and characterization of coal-derived liquids

POKRASS, VL
0480 189 Self-organization of a mathematical model for long-range planning of the cost of coal mining

POKROVSKAYA, LS
1078 153 On the nature of the organic matter of sapropel from the Osinovka coalfield
1079 191 Coal of the Khabarovsk deposit as a raw material for the isolation of waxes and resins

POLAVARAPU, J
1082 33 Formation and destruction of H//2S in the short residence time pyrolysis of pulverized coal and model compounds

POLEK, JR
0279 209 Preliminary engineering evaluation of promising coal liquefaction concepts. Final report

POLGLASE, WL
0275 27 Comparison of flue gas desulfurization, coal liquefaction for use at a coal fired power plant

POLING, G
1180 9 UBC Laboratory first of its kind in Canada to provide complete coal research facilities

POLINSKI, LM
0181 9 Use of fundamental concepts in catalyst aging to increase catalyst utilization during coal liquefaction, steam reforming, and other carbon-forming reactions
0281 128 1980 status review - hydroliquefaction of coal with supported catalysts
0281 206 Catalyst deactivation during coal liquefaction: the effect of catalyst diameter
0282 113 Catalyst deactivation during coal liquefaction. The effect of catalyst diameter

POLISHCHUK, RM
0379 118 Optimizing coal tar preparation for processing

POLIZZOTTI, RS
0178 129 Catalytic hydrogenation of carbon monoxide on nickel foils and powders

POLL, I
0181 226 Process for the partial combustion of solid fuel and burner for carrying out the process

POLLACK, I
0679 51 Liquid-metal MHD energy coversion status report March 1978 - September 1977

POLLACK, JB
0580 0 Environmental and climatic impact of coal utilization

POLLACK, SS
0281 229 Iron content of pyrrhotites produced in continuous liquefaction units
0281 295 CBED Identification of type 3C pyrrhotite in coal liquefaction product
1079 66 Estimating mineral matter in coal from its major inorganic elements

POLLAERT, TJ
0178 239 Hydrogen from coal
0179 261 Coal gasification - commercial production of synfuels today

POLLARD, F
0376 19 Methods for providing reliable data for coal preparation plant design

POLLARD, G
0278 99 Pilot-plant studies of coal hydrogenation

POLLER, J
0177 42 VEW Coal conversion process - initial test results from the 1 ton/hr pilot plant

POLLINA, R
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0678 230 MHD slag electrical conductivity studies

POLLOCK, D
0280 95 Kentucky oil shale studies
0580 41 Impact of coal preparation on liquefaction processes
0580 56 Laboratories

POLLOCK, EN
1073 6 Trace impurities in coal by wet chemical methods

POLLOCK, JD
0580 37 Sample collection

POLLOCK, MA
0681 132 Development of an aerodynamic levitation technique to study coal particle combustion

POLLOCK, TC
0181 243 Analysis of particles collected during in situ gasification of lignite

POLLOCK, WH
0678 73 Coal-fired process heaters?
0679 18 Coal-fired industrial boilers for the 1980's
0680 220 Supplementing coal with solid waste fuels

POLONIS, DH
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

POLOVNIKOVA, IA
1080 122 The composition of the humic acids of brown coals of the Grachevka Deposit

POLYANSKAYA, LA
0677 68 Investigation of the efficacy of antipyrogens

POLYANSKAYA, VL
0379 118 Optimizing coal tar preparation for processing

POLYANSKAYA, VS
0279 121 Investigation of the water-soluble acids of an ethanol-benzene extract of weathered brown-coal

POLYUDOV, VV
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

four-probe method
1080 95 Electrical resistance of heat-treated anthracites and its anisotropy
1080 175 The nonlinearity of the volt-ampere characteristics of anthracites
1081 127 The wetting of anthracites by hard-coal pitch

POTEKHIN, GA
1080 208 Petrographic compositions of coal dust fractions from some brown coals

POTGIETER, GJ
0273 1 The uncatalyzed hydrogenation of coal

POTOTSKAYA, LL
1081 186 A study of the kinetics of the low-temperature oxidation of Donbass coals tending and not tending to undergo spontaneous combustion

POTTER, T
0280 329 Chemical changes in coal liquefaction
0380 164 Low temperature chemical fragmentation of coal
1082 38 Aryl-alkyl groups in coals

POTTER, EC
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers
0677 109 Corrosion of an electrostatic precipitator in a municipal incinerator in Sydney, Australia, and some associated research work

POTTER, GL
0580 0 Environmental and climatic impact of coal utilization

POTTER, HH
0476 29 Second Institute on Coal Mine Health and Safety

POTTER, OE
0178 122 Mixing of solids in slugging gas fluidized-beds
0381 13 Drying high-moisture coals before liquefaction or gasification
0676 31 Fluidization technology, volume 1
0676 32 Fluidization technology, volume 2
0679 100 Dry as dust or how to dry particles with energy economy

POTTIER, J
0179 244 Nuclear methane reforming for coal gasification

POTTIER, M
0182 81 Major problems, first results and projects of underground gasification of deep coal in France
0678 241 Preliminary research into the deep underground gasification of coal, outlook and problems

POTTS, JD
0279 119 Two-step coal liquefaction is a hydrogen efficient route to distillate fuels
0279 120 LC-Fining of SRC - a logical second stage in two-step coal liquefaction
0280 42 A comparative study of coal liquefaction performance and economics for solvent refined coal-based processes
0280 66 LC-Fining of solvent refined coal
0280 309 LC-fining of solvent refined coal - SRC-I and short contact time coal extracts
0281 198 LC-Fining support activities for two-stage liquefaction
0281 241 LC-fining of solvent-refined coal. SRC-I and short-contact-time coal extracts

POULSON, RE
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0578 11 Coal humic substances for pollution control in the synthetic-fuels industry
0578 84 Coal humic substances and their application to pollution control in the synthetic fuels industry

POULTER, PM
0478 204 Longwall chainless haulage systems - Progress in America

POUNDSTONE, WN
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute
0480 62 Horizontal drilling technology for advance degasification

POUSKA, GA
0881 32 Differential flow rheometer

POUTSMA, ML
0280 41 Assessment of advanced process concepts for liquefaction of low H//2:CO ratio synthesis gas based on the Kolbel slurry reactor and the Mobil-gasoline process
0280 110 Free-radical model for coal conversion. Effect of conversion level and concentration on thermolysis of bibenzyl
0280 312 Thermolysis of partial coal structures: bibenzyl and naphthols
0282 31 Carbon-14 tracer study of the fate of tetralin under simulated SRC-I coal liquefaction conditions

POWE, RE
0677 248 Testing and evaluation of MHD materials and sub-structures. Annual technical progress report, July 1976 - June 1977
0678 140 A facility for simulating the gas stream environment in a coal-burning MHD power-plant

POWELL, F
0480 166 Reducing the ignition risk from auxiliary fans

POWELL, DR
0681 214 Cost-effective utilization of waste heat in coal-fired power plants

POWELL, JC
0275 25 Cellular solvent refined coal and methods for making same
0277 127 Cellular solvent-refined-coal

POWELL, JL
0475 8 Third Symposium on Surface-mining and reclamation, Volume II
0477 17 Reclaiming surface-mined land in West Kentucky
0477 92 Fifth Symposium on Surface-mining and reclamation

POWELL, JR
0178 284 Fusion and coal energy system for the production and delivery of SNG, steam, and electric-power - the burning bush concept
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0678 34 The Lash (laser-ash) particulate fragmentation removal concept for coal-fired turbine power plants

POWELL, WR
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

POWER, JF
0476 21 Fourth Symposium on surface-mining and reclamation
0477 92 Fifth Symposium on Surface-mining and reclamation
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute
0677 56 Technology and use of lignite

1076 30 Effect of sampling method on the results of chemical analysis of overburden samples

POWERGAS, D
0174 13 Power gas from coal via the Winkler process

POYSER, RW
0476 21 Fourth Symposium on surface-mining and reclamation

PRADO, G
0681 29 Nitrogen-containing polycyclic aromatic compounds in sooting flames

PRADOSH, R
1080 34 Removal of sulphur from coal by thiobacillus ferroxidans and by mixed aciodophilic bacteria present in coal

PRAKASH, CB
0181 104 Gasification of coal in a spouted bed
0182 109 Comparison of coal gasification in fluidized and spouted beds

PRAKASH, OM
0379 45 Correlation of size and effective separation density in coal washing using heavy media

PRALIAUD, H
0181 258 Chemistry of silica-supported catalysts: preparation, activation and reduction

PRASAD, M
0281 187 Solvent extraction of coal at low pressure with a coal tar oil solvent-anthracene oil

PRASAD, HN
0377 64 Effect of input size on coal washing processes
1079 5 Hydrogen-transfer catalytic activity of minerals common to coal
1079 42 Distribution of sulfur during carbonization of high sulfur coal

PRASAD, NK
1080 34 Removal of sulphur from coal by thiobacillus ferroxidans and by mixed aciodophilic bacteria present in coal

PRASSONE, M
0881 37 Coal transportation: an analysis of cost and energy requirements
0882 10 Coal transport chain: a cost and energy analysis of two technical systems: a slurry system vs. a conventional bulk transport system

PRATHER, JW
0276 43 Kinetics and solubility of hydrogen in coal liquefaction reactions
0276 50 High pressure liquid chromatographics studies of coal liquefaction kinetics
0276 90 Mechanisms of coal particle dissolution
0278 28 Effects of coal minerals on the hydrogenation, desulfurization, and solvent extraction of coal

PRATT, DT
0676 39 CREK - A computer program for calculation of combustion reaction equilibrium and kinetics in laminar or turbulent flow

PRATT, KC
1079 98 Study of nickel-molybdate coal-hydrogenation catalysts using model feedstocks

PRAUSNITZ, JM
0179 198 Vapor pressures of high-molecular-weight hydrocarbons
0180 222 Phase-equilibria for design of coal-gasification processes, dew points of hot gases containing condensible tars

1081 92 Estimation of vapor pressures of heavy liquid hydrocarbons containing nitrogen or sulfur by a group-contribution method

PRAY, W
0479 185 Choosing & using conveyor belt fasteners

PREEZ, IC DU
1080 49 Chemical nature of coal hydrogenation oils. Part 2, the effect of temperature

PRELC, J
0476 29 Second Institute on Coal Mine Health and Safety

PRELOVSKII, VA
0279 185 The production of a cation-exchange material by the sulfonation of Kuckersite shale

PRENTICE, BA
0679 104 Chemical studies of stack fly-ash from a coal-fired power-plant
1078 7 Physical and morphological studies of size-classified coal fly-ash
1079 106 Filtration studies with neutron-activated coal fly-ash
1080 144 Comparative analysis of coal fly ash by light and electron microscopy

PREOBRAZHENSKII, BP
0379 113 Improved dewatering of fine coal concentrate
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

PRESCOTT, JF
0279 229 Supercritical gas extraction of Canadian coals - Summary Report

PRESTI, RL
0478 292 Technical Assessment of Patents related to underground coal mine haulage: Appendix I Power driven conveyors

PRESTI, RL A HAIR
0478 291 Technical Assessment of Patents Related to Underground Coal mine Haulage: Final report

PRESTON, EM
0578 25 The bioenvironmental impact of a coal-fired power plant, third interim report

PRESTON, GT
0179 292 Demonstration of the resox process in Germany
0581 92 Advances in environmental control technology for coal-fired power plants

PRESTON, JL
0681 165 Development of the Adiabatic reformer to Process No. 2 Fuel oil and coal-derived liquid fuels

PREUIT, LC
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

PRICE, R
0277 13 Investigation of coal solubility in Anthracene Oils.
0277 140 An investigation of coal solubility in anthracene oils
0278 125 Evaluation of aromatic oils in the preparation of coal extracts for hydrocracking

PRICE, V
0482 55 Cost effective mountaintop removal

PRICE, AA

0380 163 Evaluation of the effect of coal cleaning on fugitive elements, final report, phase II, part II, Analytical methods

PRICE, AG
0477 120 Drilling equipment and techniques in Australian coal exploration

PRICE, BC
0182 41 Process improves acid gas separation

PRICE, FT
1077 58 A sulfur isotope study of Illinois basin coals

PRICE, GC
0465 0 Hydraulic coal mining research: Development mining in a steeply pitching coalbed, Roslyn, Wash.
0479 188 Frictional ignition of methane by continuous mining machines in underground coal mines

PRICE, JM
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

PRICE, JT
0379 88 Cokemaking with Canadian medium- and high-volatile commercial coking coals
0380 122 Pitch and petroleum coke additions to coke oven charges
0679 137 Comparison of coke produced in different Canmet coke ovens - Part 2
1081 231 Cokemaking with Canadian coals
1082 30 Effect of mineral matter on the coking properties of four western Canadian coals

PRICE, LL
0778 10 Mesozoic deposits of the Hudson-Bay lowlands and coal deposits of the Onakawana area, Ontario

PRICE, MO
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

PRICE, MS
0681 87 The manufacture of artefacts from coal

PRIEBE, SJ
0277 132 Fluidization theories and applications

PRIEM, RJ
0677 161 NASA'S pressurized fluidized-bed

PRIEVE, DC
0277 26 Synthoil hydrodynamics

PRIMACK, HS
0177 90 Coal processing technology, Volume 3

PRIMEAUX, BW
0178 40 Coal gasification - better late than never

PRINCE, PJ
1180 12 Enhanced oil recovery potential in Canada

PRINCIOTTA, FT
0574 25 Status of flue-gas desulfurization technology

PRIOR, M
0179 130 Treatment of liquid effluents from coal gasification plants
1179 11 The supply of energy to industry. Volume 1. Executive summary
1179 12 The supply of energy to industry. Volume II. Main report

PRIOR, MJ
0180 213 The future supply of gas

PRITCHARD, AB
0678 180 Fluid-bed combustion systems

PRITCHETT, JW
0177 248 Computer modeling of coal gasification reactors. Year 2. Annual report. June 1976 - June 1977
0678 126 A numerical model of gas fluidized-bed

PRIVALOV, VE
1080 102 Pitch from thermal processing of tar

PRO, R
0478 108 Extinguishing agents for mine face gas explosions

PROBERT, PB
0677 92 Corrosion in reducing atmospheres - a designer's approach

PROCARIONE, WL
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

PROCTOR, A
0177 118 Coal gasification: An essential element in energy development

PRODAN, PF
0581 72 Groundwater pollution resulting from disposal of pyritic coal wastes

PROHAZKA, GJ
0678 46 Solid waste and coal-firing in industrial boilers

PROHL, H
0178 89 Symposium on Coal Refining, Proceedings

PROKHOROV, GM
0379 78 Chlorinated peat wax
1079 243 The extraction of peat bitumens

PROKOP'EVA, TL
0380 111 A feature of the molding of a coal charge
1081 151 Experience of the use of the method of powder thermomechanics for investigating coals

PRONIN, AA
0780 48 Coal measures of deep (beyond the Shelf) ocean zones

PROSKURYAKOV, VA
0379 99 The main laws of the distribution of shale grains in a hydrocyclone
1079 234 Sulfonation of the kerogen of Kuckersite shale

PROSKUYAKOV, VA
0279 185 The production of a cation-exchange material by the sulfonation of Kuckersite shale

PROSSER, LJ
0481 95 Methane drainage study using an underground pipeline, Marianna Mine 58

PROSVIRNINA, TG
1079 222 The modelling of the electronic structure of the organic matter of coal

PROTASHCHIK, VA
0379 98 The isolation of wax from peat by extraction with tetrachloroethylene

PROUDFOOT, BW
0477 129 The treatment of bore cores to provide reliable data for coal preparation plant design

PROULX, H
1078 35 Nucleation properties of fly-ash in a coal-fired power plant plume

PROVORSE, B
1180 10 Coal: a contemporary energy story

PRUCE, LM
0378 61 Coal cleaning at Homer-City: An alternative to scrubbers
0378 69 Coal cleaning cuts clean-up costs, improves boiler performance
0680 52 Fluidized-bed boilers gain experience

PRUDEN, BB
0280 143 Hydrocracking of heavy oils using iron coal catalyst
0282 140 Simultaneous hydrocracking of bitumen/coal slurries
0282 141 Catalytic hydrocracking of heavy oils
0380 65 Coking poor coking coals and hydrocracked tar sand bitumen binder
0676 32 Fluidization technology, volume 2
1077 104 Hydrocracking of Athabasca bitumen: Effect of coal-base catalyst on pilot-plant operation

PRUDICH, ME
0282 121 Liquefaction of coal by SRC-II process Part I: A new kinetic model

PRUSCHEK, R
0180 264 Status of nuclear high temperature process heat development in the Federal Republic of Germany (coal gasification and long distance energy transport)

PRUTKOVSKII, EN
0178 366 Use of a power gas obtained in the gasification of the coals

PRUTTON, CF
0270 2 Final Report of the Advisory Committee on project gasoline, National Academy of Engineering

PRZHEGORLINSKAYA, RV
1080 184 Adsorption of aniline from aqueous solutions of weakly metamorphosed coal

PRZYJAZNY, A
0378 17 Leaching of boron from coal-ash

PRZYSTUPA, MA
1080 55 Interaction between deformation, fracture initiation and fracture propagation in two phase Co-CoAl alloys

PSARO, R

0281 186 Surface-supported metal cluster carbonyls. Chemisorption, decomposition and reactivity of Os//3(CO)//12, H//2Os(CO)//10 and Os//6(CO)//18 supported on silica and alumina and the investigation of the Fischer-Tropsch catalysis with these systems

PSHENICHNOV, NN
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

PUESCHEL, RF
0580 0 Environmental and climatic impact of coal utilization
0681 173 Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM
0681 175 Environmental effects of pollutants from coal combustion: 2. The Colstrip, Montana, Power Plant
1078 35 Nucleation properties of fly-ash in a coal-fired power plant plume

PUFFER, GR
0178 291 Coal gasification project: Douglas site, Pike County, Kentucky. Annual report, April 1977 - March 1978

PUGH, CE
0780 41 Forms of sulfur in East Texas lignitic coal
1080 209 Forms of sulfur in East Texas lignitic coal

PUGH, WL
0478 209 Mechanized steep seam working
0480 47 Water problems at West Cannock No. 5 Colliery

PUGLIO, DG
0479 156 Methane content and geology of the Hartshorne coalbed in Haskell and Le Flore Counties, Oklahoma.

PUGMIRE, RJ
0278 23 Carbon-13 NMR Investigation of the chemical composition of coal derived liquids.
0279 182 The effects of T//1 and NOE considerations in quantitative applications of carbon-13 NMR to the analysis of complex hydrocarbon mixtures
0281 272 Characteristics of coal-derived liquids from different processes: relationships to coal structure
0282 163 Changes in aromaticity during coal liquefaction
1079 76 Comparison of the carbon-13 N.M.R. spectra of solid coals and their liquids obtained by catalytic hydrogenation
1081 69 Carbon-13 CP/MAS spectroscopy of coal macerals
1081 180 Carbon-13 CP/MAS study of coal macerals of varying rank

PUKANIC, GW
0177 299 Statistical analysis and linear programming model for Illinois No.6 coal gasification data from the synthane process
0179 256 Mathematical modeling of synthane gasifier

PULFORD, ID
0578 34 Chemical variation and vegetation distribution of a coal waste tip
0578 62 A qualitative assessment of potential acidity in coal mine waste

PULLEN, JR
1081 61 Solvent extraction of coal

PULSIFER, AH
0175 40 Coal processing by electrofluidics
0178 5 Electrofluid gasification of coal with nuclear energy
0277 132 Fluidization theories and applications
0377 58 Coal desulfurization during gaseous treatment

PULZ, K

1077 65 New trends in coal utilization

PUNDARI, NB
0481 20 Selecting and using large walking draglines for deeper overburden stripping

PUNIN, AE
0379 99 The main laws of the distribution of shale grains in a hydrocyclone

PUNWANI, DV
0477 100 SNG production from peat

PURCUPILE, JC
0178 270 Energy conservation in coal conversion. Selected case studies and conservation methodologies. Final report for September 1977 - September 1978

PURDUM, C
0478 94 BOM tests tunneling for coal use

PURDY, MJ
0181 58 Coal gasification in a pilot scale fluidized bed reactor. 1. gasification of a devolatilized bituminous coal

PURRE, TA
1080 149 Determination of the amount of water-soluble compounds in tars from the thermal treatment of solid fuels

PUSTOVOITENKO, AI
0279 141 A thermodynamic analysis of the composition of the products of the high-temperature pyrolysis of solid combustible minerals

PUTNAM, AA
0180 273 Use of low-and medium-energy gas from coal in ceramic processes

PYLE, DL
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 31 Fluidization technology, volume 1

QADER, SA
0177 90 Coal processing technology, Volume 3
0269 0 Coal can also yield liquid fuels
0277 74 Hydrorefining of flash pyrolysis coal-tar
0278 94 Catalytic hydrosolvation process converts coal to low sulfur liquid fuel
0280 281 Autocatalytic coal liquefaction process
1075 2 Conversion of complex aromatic structures to alkylbenzenes

QUACKENBUSH, VC
0379 40 Chemical communication: An improved route to clean coal

QUADE, RN
0173 12 Symposium papers, Clean fuels from coal
0177 147 Hydrogen production from coal using a nuclear heat source
0279 225 Production of liquid fuels with a high-temperature gas-cooled reactor

QUAN, HJ
0582 15 Applications of airshed modelling to utility planning

QUANN, RJ
0680 178 Laboratory studies of mineral matter vaporization during coal combustion
0681 49 Vaporization and condensation of mineral matter during pulverized coal combustion

QUARDERER, GJ
0177 211 Conversion process for solid, hydrocarbonaceous materials
0277 60 Coal hydrogenation catalyst recycle
0278 59 The DOW coal liquefaction process
0279 56 Dow coal liquefaction process

QUARLES, JR
0177 275 Coal conversion: Practical and legal implications

QUASS, F
0480 60 Examining dyke influence on coal seams

QUELLETTE, RP
0172 6 Coal - The Black Magic

QUENON, RH
1177 44 Symposium on coal dilemma: How and where to use it

QUENTIN, G
0178 125 Electricity industry assessment of low-Btu-gas for power generation

QUENTIN, GH
0180 288 Control strategy for gasification combined-cycle power plants

QUEZADA, R
0282 30 Surface changes in coal hydrogenation autoclaves that affect autoclave reactions

QUICKER, G
0281 177 A further note on mass transfer limitations in the Fischer-Tropsch slurry process

QUIG, RH
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0374 5 Chemico experience for SO//2 Emission Control on coal-fired boilers
1180 3 Coal as an energy source: its impact on engineering planning

QUIGLEY, RM
0380 22 Electrostatic beneficiation of Hat Creek (Canada) coal in the fluidized state

QUILLMAN, B
1180 26 Present and future coal utilization at Du Pont

QUINCY, EA
0177 256 Proceedings of the third annual underground coal conversion symposium
0180 146 Remote induction sounding of Hanna underground coal burn II, phase 1, employing pseudonoise/cross-correlation techniques
0181 7 Statistical model fitting of remote induction sounding data from underground coal gasification site-Hanna II, Phases 2 and 3

QUINLIVAN, S
0578 115 Environmental assessment data base for high-Btu gasification technology: Volume I. Technical Discussion
0578 118 Environmental assessment data base for high-Btu gasification technology, Volume III. Appendices D, E, and F

QUINN, RS
0177 256 Proceedings of the third annual underground coal conversion symposium
0179 92 Low and medium-BTU gasification - A chemical industry perspective
0180 15 Coal utilization in the chemical industry

0580 58 Laboratory support

QUIRK, JP
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

QUON, DH
0778 18 Extraction of alumina from Canadian non-bauxite materials

QURESHI, A
0881 38 Economic optimum design of a methacoal pipeline

RAABE, OG
1079 119 Polynuclear aromatic hydrocarbons associated with coal combustion

RAAEN, VF
0278 19 Thermal-cleavage of chemical bonds in selected coal-related structures
1077 45 Isotopic studies of thermally induced reactions of coal and coal-like structures
1079 38 Pyrolysis of tetralin
1079 70 Coal chemistry. 8. Reactions of tetralin with coal and some carbon-14-containing model compounds

RAASK, E
0680 185 Quartz, sulphates and trace elements in PF ash
1079 64 Sintering characteristics and electrical resistivity of refuse ashes

RABB, D
0882 24 Alberta coal supply pipeline study - 1981

RABB, JD
0882 64 Western Canadian coal transport by slurry pipeline

RABEN, LA
0374 0 Coal utilization symposium - Focus on SO//2 emission control

RABER, E
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

RABINOWICZ, E
0882 17 Abrasiveness of fine grain particles in slurry machinery

RADCHENKO, OA
0781 35 The construction of a scale of the coalification transformation of fossilized organic matter on the basis of its chemical and substance composition

RADCHENKO, SA
1080 204 Results of industrial trials on the elimination of petroleum products from industrial effluents with natural coals
1081 208 The heats of sorption of methane by coals at pressures of up to 8.0 MPa

RADCLIFFE, DE
0478 202 Humidity: A cyclic effect in coal mine roof stability
0480 197 Long-term response of a coal mine roof to time lapse between exposure and support

RADD, FJ
0176 42 Metal dusting corrosion in coal gasification environments

RADEBOLD, RD
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

RADER, AM
0477 100 SNG production from peat

RADER, PC
0681 188 Coal Technology '81, Vol. 3

RADFORD, BC
0378 14 Filter presses used in British coal mining for dewatering flotation tailings

RADKE, D
0681 138 Development of a melt-down process with combined direct reduction using any type of fine coal

RADKE, M
0780 13 Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence

RADKE, CJ
0279 65 Charge and filtration of solvent-refined-coal suspensions

RADKE, LF
0579 9 Evolution of particles in the plumes of coal-fired power-plants. I. Deductions from field measurements

RADWAY, JE
0580 30 Selecting and using fuel additives
0677 105 Reduction of coal-ash deposits with magnesia treatment

RAE, D
0679 103 Experiments on prevention and suppression of coal-dust explosions by bromochlorodifluoromethane and on prevention by carbon tetrachloride

RAEVSKAYA, IS
0679 127 Influence of the aggressive action of the products of the rapid pyrolysis of brown coal on constructional materials

RAFFOUX, JF
0182 81 Major problems, first results and projects of underground gasification of deep coal in France
0480 35 Planning and data processing in collieries operations

RAGAINI, RC
0379 21 Elemental emissions from a coal-fired power-plant. Comparison of a Venturi wet-scrubber system with a cold-side electrostatic precipator
0579 10 Emissions and particle-size distributions of minor and trace-elements at two eastern coal-fired power-plants equipped with cold-side electrostatic precipitators
0678 4 Behaviour of natural radionuclides in Western coal-fired power plants
0679 104 Chemical studies of stack fly-ash from a coal-fired power-plant
1078 39 Elemental particle-size emissions from coal-fired power-plants: Use of an inertial cascade impactor
1078 44 Characterization of trace-element emissions from coal-fired power-plants

RAGAN, S
1081 72 Carbonization and liquid-crystal (mesophase) development. 22. Micro-strength and optical textures of cokes from coal-pitch co-carbonizations

RAGHURAM, S
0180 82 Multiple steady states in adiabatic gas-liquid-solid reactors

RAGLAND, KW
0578 47 The impact of a coal-fired power-plant on ambient sulfur-dioxide levels

0679 15 Combustion of single coal particles in a jet
0681 37 Coal combustion at high reynolds number

RAHFUSE, RV
0174 35 Noncaking-coal gasified in a stirred-bed producer
0175 25 Bituminous coal gasified in a stirred-bed producer

RAHMAN, MM
0181 7 Statistical model fitting of remote induction sounding data from underground coal gasification site-Hanna II, Phases 2 and 3

RAHMAN, SF
0178 200 Chemical and physical stability of refractories for use in coal gasification. Second annual progress report for May 1977 - April 1978
0179 77 Chemical and physical stability of refractories for use in coal gasification. Third annual progress report for May 1978 - April 1979
0180 143 Properties of refractories after exposure to high pressure gases: II - Effect of exposure time
0679 150 Properties of refractories after exposure to high pressure gases. 1. Survey of commercial products

RAHMEL, A
0677 91 The influence of electrode potential on corrosion and creep behaviour of heat resistant alloy in alkali sulfate melts

RAHMER, BA
0279 0 Fair prospects for coal liquids

RAI, C
0178 75 Cleaning producer-gas from the MERC gasifier
1079 4 Kinetic models for pyrolysis and hydrogasification of Hanna coal

RAI, D
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

RAILTON, JB
0582 15 Applications of airshed modelling to utility planning

RAINIS, A
0380 104 Processes for recovering coal

RAISTRICK, B
0381 47 Process of extraction of aluminum values from coal ash

RAJ, S
0779 24 On the investigation of aliphatics in coals
0779 41 Structural characteristics of vitrinites
1077 39 Phenols as chemical fossils in coals

RAJA, K
0677 76 Sulfur in coal and its transformation during pyrolysis
1077 59 Devolatilization characteristics of carbonaceous solid fuels, with special reference to coal
1079 111 Products of carbonization of coal in relation to certain structural parameters - a status report

RAJAN, P
0178 272 Coal processing technology, Volume IV

RAJAN, S
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical

sessions, April 9-11, 1980, Atlanta, Georgia

RAJAN, RR
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0678 123 Simulation of fluidized-bed combustors: Part II. Coal devolatilization and sulfur-oxides retention
0678 255 Simulation of fluidized bed coal combustors - dissertation
0680 46 A comprehensive model for fluidized bed coal combustors

RAJU, VU
0682 26 Mathematical model of concentration distribution of a pulverized coal jet in a horizontal combustion chamber

RAKITSKY, W
0380 164 Low temperature chemical fragmentation of coal

RAKITSKY, WG
0280 187 Structural changes occurring in coal liquefaction
0280 329 Chemical changes in coal liquefaction
1080 85 Dihydroaromatic structure of Illinois No. 6 Monterey coal
1080 115 Chemical structure of Wyodak coal
1080 127 Oxidation methods for the study of coal structure - dissertation
1081 29 Linear alkane chains in coals

RAKOVSKII, VE
0179 310 Thermal degradation of natural polymers in the presence of zinc chloride
0379 96 The biochemical treatment of peat and its components
0681 178 Optimization of the oxidation of the peat residue after hydrolysis
1078 161 Formation of the porous structure of carbonaceous materials from peat
1079 188 A study of the chemical composition of buried high-moor and transitional peats
1079 189 An investigation of the thermal destruction of cottongrass peat in the presence of orthophosphoric acid
1081 126 The question of increasing the strength of porous carbonaceous materials

RAKOVSKIY, VY
1078 161 Formation of the porous structure of carbonaceous materials from peat

RAKOW, MS
0278 63 Economics of the H-coal process

RALEIGH, C
0580 57 Office for informational services and technical liaison

RALEK, M
0178 72 Feedstock for chemical industry by selective Fischer-Tropsch Synthesis
0179 211 Mass transfer in the liquid-phase Fischer-Tropsch synthesis
0280 157 Hydrodynamic properties of the Fischer-Tropsch slurry process
0281 70 On the relevance of mass transfer limitations in the Fischer-Tropsch slurry process
0282 116 Fischer-Tropsch synthesis in the slurry phase on Mn/Fe catalysts

RALPH, B
1079 78 Petrographic characterization of coal using automatic image analysis

RALSTON, DE
0476 23 Second Symposium on Underground Mining

RALSTON, DH
0677 56 Technology and use of lignite

RALSTON, DS

0578 7 Need for selective placement of overburden and equipment considerations
0579 93 Prime farmland reclamation

RALSTON, MA
0478 308 Analytical bases for eletromagnetic sensing of coal properties - final report

RAMACHANDRAN, G
0880 39 Coal de-icing program at ARCO's Black Thunder mine

RAMACHANDRAN, J
1080 11 Study of metals erosion in high temperature coal gas streams

RAMACHARYULU, M
0177 73 Methanation of synthesis-gas from coal
0178 123 Synthetic-fuels from coal
0179 232 Devolatilization of coal in a continuous fluidized bed

RAMAKRISHNAN, R
0278 214 Hydropyrolysis of coal derived liquids and related model compounds - dissertation

RAMAKRISHNAN, NN
0177 212 Producer-gas and its application
0178 123 Synthetic-fuels from coal
0179 232 Devolatilization of coal in a continuous fluidized bed

RAMAN, K
0281 0 Process chemistry of direct liquefaction of lignite with hydrogen and carbon-monoxide

RAMAN, SV
0282 51 Research and development support for a solvent refined coal demonstration plant - an overview

RAMANI, RV
0376 3 Second Symposium on Coal Preparation
0476 23 Second Symposium on Underground Mining
0477 23 Underground extraction techniques for thick coal seams.
0478 65 Integration of land use planning with surface-mining
0478 208 Systems concept for coal mine ventilation
0480 13 Analysis of equipment requirements for anthracite open-pit mining
0480 216 The interrelationship between coal mine plant and ventilation system design
1079 14 Rank and maceral effects on coal-dust generation

RAMASWAMI, R
0282 140 Simultaneous hydrocracking of bitumen/coal slurries

RAMASWAMY, V
0580 0 Environmental and climatic impact of coal utilization

RAMBELLI, P
0281 259 Kinetics and mechanisms of catalytic hydroliquefaction and hydrogasification of lignite, Final Technical Report
0282 152 Catalytic hydroliquefaction of North Dakota lignite. Part I. Effects of process variables on product distribution

RAMDAS, V
0177 300 Heat transfer to viscous materials in a continuous-flow, scraped-wall, commmercial-size heat exchanger

RAMIREZ, AL

0182 89 Examination of UCG cavities for the large block test, Centralia, Washington

RAMMLER, RW
0178 89 Symposium on Coal Refining, Proceedings
0281 251 Low-investment carbonization process for coals makes liquid, gas, and boiler fuel
0282 111 Synthetic fuels from Lurgi coal pyrolysis

RAMPLING, TW
0180 185 Fixed bed slagging gasification - a means of producing synthetic fuels and feedstocks
0181 38 Methanation key to SNG success

RAMSDEN, AR
0677 85 Microscopic investigation of the behaviour of inorganic material in coal during combustion

RAMSEY, GH
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

RAMSEY, WJ
0174 37 An assessment of United-States energy options for project independence

RANADE, MB
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

RANADIVE, AY
0181 251 Hot gas cleaning for advanced coal conversion technologies
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

RANBERGER, C
0881 47 Coal Technology '81, Vol. 1

RANCITELLI, LA
1073 14 Major, minor, and trace-element composition of coal and fly-ash, as determined by instrumental neutron activation analysis

RAND, B
1080 123 Glass transformation in some pitch materials

RANDELL, AA
0181 218 Fluidized bed system
0680 95 A method of heat treating a material

RANDICH, E
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

RANDOLPH, D
0476 21 Fourth Symposium on surface-mining and reclamation

RANEY, EM
0477 59 Three-dimensional analysis of a single and double-entry coal mine

RANGANATHAN, R
0280 143 Hydrocracking of heavy oils using iron coal catalyst
0282 141 Catalytic hydrocracking of heavy oils

RANKE, G
0173 54 Advantages of the rectisol-wash process in selective H//2S removal from gas mixtures

RANKEN, WA
0174 66 Conceptual design of a heat pipe methanator

RANKIN, JG
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

RANKIN, RR
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 96 Topical report on insulating wall boundary layer in a faraday MHD generator

RANSON, BB
0477 163 Subsidence monitoring systems for undermined areas. Final technical report. Woodward-Clyde Consultants

RANTELL, TD
0279 114 Filtration in coal liquefaction. Influence of digestion conditions in the filtration of nonhydrogenated coal digests
0280 0 Filtration in coal liquefaction. Influence of filtration conditions in non-hydrogenated systems
0280 20 Carbonization and liquid-crystal (mesophase) development. 18. Carbonization of coal-extract solutions (nonhydrogenated): Influence of digestion conditions upon optical texture of cokes
0281 39 Filtration in coal liquefaction - influence of filter membrane on filtration
0281 290 Filtering coal liquids: Influence of particle sedimentation on filtration
0282 36 Filtration in coal liquefaction: preparation of filter aid from filter cake
1082 64 Estimation of the concentration of donatable hydrogen in a coal solvent by n.m.r.

RAO, BK
0682 42 Thermal decomposition and ignition of coal

RAO, CD
0181 223 Technology and use of lignite, Vol. 1 and 2

RAO, CV
0780 40 Use of electrical resistivity methods for study of some faults in the Jharia coalfield, India

RAO, DB
0179 182 A solid-state probe for sulfur-dioxide/sulfur-trioxide based on sodium-sulfate-iodine electrolyte

RAO, DV
0380 49 A process for separation of silica from siliceous magnesian limestones

RAO, GV
0780 7 A geothermal study of the Jharia Gondwana basin (India), heat flow results from several holes and heat production of basement rocks

RAO, JR
0682 42 Thermal decomposition and ignition of coal

RAO, KR
0181 162 Moessbauer and magnetic studies of bifunctional medium-pore zeolite-iron catalysts used in synthesis gas conversion
0580 177 Atmospheric impacts of natural-draft cooling tower emissions: a case history

RAO, MJ
0177 73 Methanation of synthesis-gas from coal

RAO, MV
0779 14 Seismoacoustic activity in a coal seam in relevance to destressing
0779 16 Study of acoustic emissions from stressed rocks and rockmasses

RAO, RU
0780 7 A geothermal study of the Jharia Gondwana basin (India), heat flow results from several holes and heat production of basement rocks

RAO, VU
0180 200 Make olefins from syn gas
0181 162 Moessbauer and magnetic studies of bifunctional medium-pore zeolite-iron catalysts used in synthesis gas conversion
0280 295 Synthesis gas conversion to gasoline range hydrocarbons over medium pore zeolite catalysts containing 3d-metals and bimetallics
0282 47 Bifunctional metal-zeolite catalysts for indirect liquefaction

RAO, CSR
0677 31 Fluidized-bed combustion technology - A review

RAPHAELIAN, LA
0179 5 Stability of extractable organic constituents in stored samples of gasification condensates inferred from comparisons of GC/MS total ion-chromatograms
0279 35 Development of an HPLC, GC/MS method for analysis of Hygas oil samples

RAPLEY, DE
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

RAPP, RA
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

RAPPE, GC
0280 363 An evaluation of solids separations techniques in coal-liquids
0282 51 Research and development support for a solvent refined coal demonstration plant - an overview
0381 4 Scale-up of a SRC deashing process

RAPPERPORT, EJ
0677 258 Final engineering report on the dual mode magnet for high performance demonstration experiment

RAPTIS, AC
0177 199 Review of the state of the art of flow and analysis instruments
0181 82 Ultrasonic properties of coal slurries and flow measurements by cross correlation
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

RARING, LM
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

RASH, D
0278 21 Comparison of results obtained from different types of hydrogenation reactors using anthracene-oil
0280 152 Hydrogenation of ion-exchanged Victoria brown coals
0281 48 Direct hydrogenation of Victorian brown coal lithotypes
0282 15 Synergistic catalytic effect in the hydrogenation of Victorian brown coals

RASHID, MA

0382 14 Drying low rank coal

RASKIN, NR
0180 78 Coal Technology '80

RASMUSSEN, G
0181 11 The use of non-fossil derived hydrogen in coal conversion process
0181 106 The use of non-fossil derived hydrogen: A possible role for coal conversion

RASMUSSEN, J
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
1079 169 Wettability and corrosion of MHD ceramics by rosebud coal slag

RASMUSSEN, WO
0482 6 Design of post mine topography to maintain hydrologic integrity of surface streams

RASSUDOV, NS
0678 44 Low temperature combustion of solid fuels in restrained fluidized-beds

RASTOGI, RC
0376 3 Second Symposium on Coal Preparation

RASTOIN, J
0179 244 Nuclear methane reforming for coal gasification

RATCLIFFE, CT
0280 229 Novel approach to coal liquefaction utilizing hydrogen sulfide and carbon monoxide
1080 20 Chemical reduction of sulphur dioxide to free sulphur with lignite and coal -- 1. Steady-state reaction chemistry and interaction of volatile components.
1080 21 Chemical reduction of sulphur dioxide to free sulphur with lignite and coal 2. Kinetics and proposed mechanism

RATH, LK
0177 86 Development of the Westinghouse coal gasification process - A status report
0177 209 Conversion of Rapid-City pilot-plant. Phase 1. Final Report, June - Dec. 1977
0178 76 Process development for the Westinghouse advanced fluidized-bed coal gasification system
0178 252 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 2, Conversion work, equipment list and drawings, Phase III, Work scope, project schedule. Phase II. Final report, December 1977 - August 1978
0178 253 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 3, Design and construction cost estimates, overall program costs and schedule. Phase II. Final report, December 1977 - August 1978
0178 256 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 1, Summary, Test programs, environmental assessment, gasifier control, and oxygen conversion. Phase II. Final report, December 1977 - August 1978
0180 307 The Westinghouse coal gasification process
0182 44 The Westinghouse gasification process
0576 12 Operation of the Westinghouse coal gasification PDU

RATTO, JJ
0278 90 Deuterium tracer method for investigating the chemistry of coal liquefaction
0278 147 Deuterium-tracer-method for investigating the chemistry of coal liquefaction. Annual technical progress report, July 1976 - June 1977
0280 11 Study of the products of coal hydrogenation and deuteration by electron-paramagnetic-resonance
0281 270 Interaction of naphthalene with bituminous coal: an EPR and NMR study

RATYNSKII, VM
0278 184 Use of the mineral fraction from the regeneration of molybdenum compounds in the fuel hydrogenation process

0678 247 Extraction of molybdenum from the fly-ash produced in the combustion of coal hydrogenation sludge

RAU, E
0881 48 Coal Technology '81, Vol. 2

RAUCH, HW
0179 101 Geophysical survey characterization of underground coal gasification sites near Pricetown, West-Virginia
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0378 49 Feasibility study of coal-slag based glasses for hot-gas clean-up. Final report of Phase 1, April 1977 - April 1978

RAVEN, P
0677 147 Pressurized fluidized-bed combustion, Report No. 43, Annual Report, July 1976 - June 1977
0677 232 Engineer, design, construct, test and evaluate a pressurized fluidized-bed pilot-plant using high-sulfur-coal for production of electric-power, Phase 1, Preliminary engineering, PFB Combustor/Heat-exchanger rig test at Leatherhead

RAVIKUMAR, R
0279 133 Engineering evaluation of conceptual coal conversion plant using the H-Coal liquefaction process

RAVINA, D
0381 40 Efficient utilization of coarse and fine fly ash in precast concrete by incorporating thermal curing

RAWAT, NS
0482 107 Atomic absorption spectrophotometric and x-ray studies of respirable dusts in Indian coal mines
0482 108 A study of physicochemical characteristics of respirable dust in an Indian coal mine

RAWDON, AJ
0181 250 Practical operating experience of a Riley gasifier

RAWLINS, WT
0179 55 Coal processing for fuel cell utilization: Task VIII. H//2S removal by calcium-based sorbents

RAY, A
0677 37 Dynamic modeling of fluidized-bed boilers for control system design
0678 25 Preliminary controller evaluation for the MERC/CTIU using a mathematical process model

RAY, AB
0581 35 Process for desulfurization of coal

RAY, AK
0180 257 A combined fracture/porous media model for contaminant transport

RAY, SS
0677 4 Characterization of Ash from Coal-Fired Power Plants

RAYFORD, AG
0280 34 Dissolution of wet Texas lignite in tetralin

RAYMER, FB
0382 3 Preparation of coal for pipeline transportation
0878 5 Terminal facilities for Western-coal slurry pipelines

RAYMON, NS
0176 19 Refractory-Lining-materials for coal gasifiers
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0179 27 Evaluation of refractory line materials for use in nonslagging, high-Btu coal gasifier reactors

0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

RAYMOND, B
0379 19 Recent advances in Canadian coal preparation

RAYMOND, R
0275 16 Synthoil process and product analysis
1077 62 A new standard for electron microanalysis of organic sulfur in coal

RAYNER, JG
0380 43 Oil-assisted filtration of fine coal

RAZGAITIS, R
0677 233 An analysis of the high-temperature particulate collection problem

READ, R
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

READ, AW
0679 65 Improved method of combustion control of coal-fired boilers using flue-gas carbon-monoxide analysis

READ, DC
0681 180 Materials problems in fluidized-bed combustion systems

READ, PJ
0178 89 Symposium on Coal Refining, Proceedings
0179 13 Small-scale coal-gasification plants
0480 219 Proceedings: Direction of Coal Research in Eastern Canada

READE, NS
0780 24 Coking-coal deposits in Colorado

READER, GT
0678 24 Aspects of pulsating combustion

READYHOUGH, PJ
1074 6 Interpreting coal properties for utilization in commercial cokemaking
1078 114 Evaluation and selection of coals for blast furnace coke

REAGAN, DE
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

REAP, EJ
0278 52 Wastewater characteristics and treatment technology for the liquefaction of coal using the H-Coal process

REBAGAY, TV
1078 177 Microstructure studies of chemically desulfurized coals

REBER, SA
0177 90 Coal processing technology, Volume 3
0277 73 The relative advantages of coal conversion routes for electric-power generation

RECHARD, PA
0478 66 Streamflow effects resulting from surface-mining in the Powder-River-Basin

1177 44 Symposium on coal dilemma: How and where to use it

RECHARSHKY, MV
0281 258 Coal-derived liquid fuels provide H//2 for fuel cell power, vehicle propulsion

RECK, RA
0580 0 Environmental and climatic impact of coal utilization

REDDY, A
0179 232 Devolatilization of coal in a continuous fluidized bed

REDDY, S
0281 279 Moessbauer study of the transformation of iron minerals during coal conversion

REDDY, GN
0178 97 Advanced processes for generation of electric power: Solvent-refining of coal and combined-cycle plants
0278 137 Burning of solvent-refined-coal: a viable means of compliance
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

REDENTE, EF
0476 21 Fourth Symposium on surface-mining and reclamation

REDMANN, RE
0578 24 Environmental impact of mining in Canada

REED, LA
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

REED, RP
0176 118 Some observations from temperature measurements on recent underground coal gasification experiments
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 146 Instrumentation for in-situ coal gasification. II. Thermal and gas sampling diagnostic techniques
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

REED, RR
0677 40 Development of the fluidized-bed carbon-burnup-cell
0677 159 Multiple feed point CBC test program
0678 32 Eductor performance in the coal-feed system of a fluidized-bed combustor
0678 135 Fly-ash combustion in a fluidized-bed boiler
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

REED, WR
0178 305 A review of the Badger Report FE-2416-24, conceptual design of a coal-to-methanol commercial plant, Feb. 1978

REEDER, J
0580 59 Solubility parameter study of coals

REERINK, W
1079 253 Process and equipment to produce coke

REES, DP
0178 272 Coal processing technology, Volume IV

REES, PB

0477 32 New Mine construction

REESE, HB
0479 193 Operational aids for improved dragline utilization

REESE, RG
0478 172 Coal recovery from underground bituminous coal mines in the United-States, by mining method

REEVE, J
0678 181 Improved electrostatic-precipitator performance by use of fly-ash conditioning agents

REEVE, DA
0281 19 Coal liquids in Canada
0380 6 Coal-oil-mixture research and development in Canada
0380 12 Coal as an energy source in recovery and upgrading of Canadian heavy oils and tar sands
0480 219 Proceedings: Direction of Coal Research in Eastern Canada
1181 35 Coal technology in the 80's

REEVES, DR
0976 0 Coal Exploration

REEVES, JA
0478 96 Advancing longwall mining at mid-continent

REEVES, JJ
0780 30 Seismic seam waves in the coal basin of Colorado

REEVES, PL
0778 39 Mineral resources of Saskatchewan

REGUEIRO, J
0780 31 Hole-to-Hole seismic seam wave observations

REH, L
0675 10 Process for burning carbonaceous materials

REHM, BW
0580 153 Potential effects on groundwater of fly ash and FGD waste disposal in lignite surface mine pits in North-Dakota
0781 40 Depositional setting and groundwater quality in coal-bearing sediments and spoils in western North Dakota

REHMAT, A
0180 3 Agglomeration of ash in fluidized-bed gasification of coal by steam-oxygen (or air)mixture
0180 78 Coal Technology '80
0180 242 Historical development of the U-Gas process at the IGT pilot plant
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

REHMAT, AG
0177 31 Multiple nonisothermal noncatalytic gas - solid reactions. Effect of changing particle size
0177 90 Coal processing technology, Volume 3
0180 151 Single particle gas-solid reactions and their application to modeling of fluidized-bed coal combustors and ash agglomerating - dissertation
0678 33 Low-Btu-gas from the IGT ash-agglomeration gasification process

REHN, IM
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg,

Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

REICH, M
0374 3 First Symposium on Mine and Preparation plant refuse disposal

REICHHARDT, W
0478 179 Raising social working capacity through decrease in sickness and accidents

REICHL, EH
0180 78 Coal Technology '80
0180 145 Research needs for coal gasification and coal liquefaction

REICHLE, DE
0374 0 Coal utilization symposium - Focus on SO//2 emission control

REID, AB
0181 223 Technology and use of lignite, Vol. 1 and 2

REID, CS
0181 17 Rawlins test #1 cavity definition study

REID, KJ
1081 145 In-flight plasma reduction of domestic chromite

REID, RC
0175 76 Gasification process

REID, RL
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

REID, WT
0680 114 Fireside additive trials in utility boilers - overview of an EPRI survey
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

REIDELBACH, H
0178 74 Theoretical studies of coal pyrolysis in an entrained-bed flow-reactor

REIDERAUER, S
0282 139 Method for the production of liquid carbon compounds from coal

REIDICK, H
0681 177 NO//x-free combustion in pulverized coal tangential firing - NO//x-Arme ferbrennung bei kohlenstaub-tangentialfeuerungen

REIGEL, FO
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

REILLY, MJ
0577 14 Environmental planning for ERDA's coal gasification technologies

REILLY, RW
0181 189 A comparative economic analysis of several CAES design studies

REIMANN, GA
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

REIMANN, KJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

REIMERS, GW
0176 126 Reactivity and gasification characteristics of low ranking coals and potentially reducing waste materials

REIMERT, R
0177 116 Comparative description of coal-feeding systems for fixed-bed pressure gasification

REINERS, WA
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

REINHARDT, T
0180 309 High mass flux coal gasification

REINHARDT, TF
0177 30 High Mass Flux Coal Gasifier: Phase 1, Final Report
0179 53 High mass flux coal gasifier. Final report, Phase II

REINTJES, H
0677 58 The petrocarb pneumatic feeding - A proved method for feeding particulate solids at controlled rates

REISS, IH
0477 15 Total utilization of a Land Resource

REISTER, DB
1177 47 Net energy analysis of five energy systems

REKLAITIC, GV
0176 51 Coal conversion plant computer simulation

REKLAITIS, GV
0180 1 Modeling of staged fluidized-bed coal pyrolysis reactors

REKOV, AI
0675 12 Development and study of high temperature materials for various components of MHD installations
0678 98 Tests and studies of U.S.S.R. materials at the U.S. coal burning MHD facility UTSI-2

REKSOHADIPRODJO, S
1180 25 Oil and other energy resources for development: The Indonesian case

REKUN, VV
0381 67 Change in the properties of coals during their preparation for grinding

RELMAT, A
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

REMENYI, K
0679 76 Pulverized coal firing with fluidization

REMIREZ, P

0278 84 Rocket systems boost coal conversion plans

REMPEL, GL
1180 14 Physical and chemical characterization of Athabasca tar sands fly ash

RENARD, P
0676 32 Fluidization technology, volume 2

RENGACH, VP
0278 183 Estimation of the economic effectiveness of the production of liquid products from coal

RENNARD, RJ
0281 292 Filtering coal liquids: Hydrogenation of distillate feedstocks

RENNE, DS
0577 22 Regional air quality assessment for coal-related energy development in the Northwest

RENOLA, GT
0281 207 Applications of semi-empirical model for the EDS coal liquefaction process

RENSBURG, WC VAN
0179 286 Coal gasification and liquefaction

RENTON, JJ
0577 6 Depositional Model for Facies of Waynesburg Coal, West Virginia
0777 18 The composition of coal: Some implications for the future
1078 27 Systematic variability in the mineralogy of the low temperature ash of some North-American coals
1078 50 Application of Moessbauer-spectroscopy to monitor acid-mine-drainage potentials of coal seams

RERUCROFT, PJ
0178 221 Surface structure and mechanisms of gasification catalyst deactivation, Annual Report, Feb. 1977 - Jan. 1978

RESSL, RA
0381 81 Cost benefits associated with the use of physically cleaned coal

RETALLICK, FD
0678 101 MHD ETF conceptual design, Volume 1 - Summary and Recommendations
0678 105 MHD ETF conceptual design, Volume III - Definition of concepts
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0679 34 MHD ETF-150 MW progressive facility reference concept

RETCOFSKY, HL
0275 2 Chromatographic and NMR analysis of coal liquefaction products
1077 43 Electron-spin-resonance studies of coals and coal-derived asphaltenes
1078 26 Carbon-13 Hydrogen-1 Cross-polarization nuclear-magnetic-resonance spectra of macerals from coal
1079 226 Nature of the free radicals in coals, pyrolyzed coals, and liquefaction products

REUCROFT, PJ
0177 232 Surface structure and mechanisms of gasification catalyst deactivation. Annual report, February 1976 - January 1977
0180 150 Reducibility and surface area of coprecipitated supported nickel methanation catalysts
0280 97 Development of sulfur tolerant dispersed metal catalysts for coal conversion processes
0580 48 Surface area and pore volume determination of raw and solvent extracted coal samples

REUTHER, JJ
0280 105 The relationship between fuel-nitrogen-to NOx conversion efficiency and boiling range for coal-derived liquid fuel combustion

0280 106 The effect of increased aromaticity on the combustion characteristics of paraffinic kerosine
0581 0 NOx and soot formation in the combustion of coal-derived fuels
0681 0 Scientific aspects of the combustion of coal-oil, coal-water and coal-oil-water mixtures

REUTHER, JL
0680 48 Combustion of alternative natural and synthetic fuels

REUTOVA, GV
0379 112 Hammer crushers with screens

REVAY, D
0181 248 Operating experience with the Westinghouse gasifier

REVVA, M
0174 46 Underground gasification of coal

REYES-NAVARRO, J
0776 16 Pyrite in Coal: Its forms and distribution as related to the environments of coal deposition in three selected coals from Western Pennsylvania

REYMOND, JP
0282 191 Changes in the surface structure and composition of an iron catalyst of reduced or unreduced Fe//20//3 during the reaction of carbon-monoxide and hydrogen

REYNOLDS, G
1077 86 Coal stream composition analysis for process control using prompt neutron activation analysis
1080 153 Nuclear assay of coal - Volume 1: Coal composition by prompt neutron activation analysis - Basic Experiments

REYNOLDS, JP
0678 211 Control technology for fine-particulate emissions

REYNOLDS, MJ
1081 229 The optical anisotropy of coke in relation to metallurgical coke making

REYNOLDS, RL
0475 10 First Symposium on Underground Mining, Volume II

REZA, SH
0174 16 Wellman-Galusha Process Technology and Economic feasibility for low-Btu-coal gasification

REZNIK, AA
0177 226 The measurement of the flow properties and capillary pressure relationships of certain coal pertaining to underground coal gasification. Final report, September 1976 - November 1977
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 38 The measurement of the flow properties of coals for in-situ gasification. Final report for December 1977 - November 1978
1074 2 Air-water relative permeability studies of Pittsburgh and Pocahontas coals

REZNIK, MG
1078 131 Continuous coal carbonization in a pressurized-travelling-bed
1080 200 Differentiation of the coals of the Donbass with respect to the intensity of heat evolution in oxidizing processes

REZNIK, RB
0680 167 Source assessment: dry bottom utility boilers firing pulverized bituminous coal

REZNIKOVA, LN
0779 22 Chemical and petrographic parameters of low-rank coals of the Donets, Kuznets and Pechora Basins and the coalfields of the Trans-Baikal.

RHOADES, ML
0177 256 Proceedings of the third annual underground coal conversion symposium
0180 146 Remote induction sounding of Hanna underground coal burn II, phase 1, employing pseudonoise/cross-correlation techniques
0181 7 Statistical model fitting of remote induction sounding data from underground coal gasification site-Hanna II, Phases 2 and 3

RHODENIZER, BL
0677 238 Design of superconducting magnets for MHD applications

RHODES, E
0681 122 A furnace wall ash monitoring system for coal-fired boilers

RHODES, AW
0180 78 Coal Technology '80

RHODES, DE
0278 44 Critical solvent deashing of liquefied coal
0278 177 Use of specific coal components to improve soluble coal product yield in a coal deashing process
0278 178 Separation technique in a coal deashing process
0279 69 Critical solvent deashing of liquefied coal
0280 136 Process for improving soluble coal yield in a coal deashing process
0280 161 Operation of a coal deashing process
0281 46 Development of a standardized method to characterize fossil fluids for process design
0282 71 Integrated bench-scale studies: process variations in two-stage coal liquefaction
0381 34 Process for the discharge of ash concentrate from a coal deashing system

RHODES, WJ
0579 41 Environmental impact of synthetic-fuels development
0580 10 Environmental assessment and control technology for low Btu gasification works

RHYNE, JB
0680 50 Coal-oil-water combination shows potential for use as lime kiln fuel

RIAL, GA
0177 198 Overview of ERDA - Fossil energy demonstration plant program
1177 44 Symposium on coal dilemma: How and where to use it

RICE, CH
0271 2 A synthetic fuels process

RICE, LF
0181 200 Method and apparatus for gasifying with a fluidized bed gasifier having integrated pretreating facilities

RICE, RC
0181 223 Technology and use of lignite, Vol. 1 and 2

RICE, RE
1178 18 Economic and fiscal impacts of coal development: Northern-Great-Plains

RICE, RL
0673 3 Combustion of coals in fluidized-beds of limestone
0679 25 Fluidized-bed combustion of high sulfur coals

0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

RICE, WW
0581 58 Spectroscopy and reaction kinetics of HS radicals

RICH, CH
1178 2 Projects to expand energy sources in the Western-States - An update of information circular 8719

RICH, LL
0181 157 TVA ammonia from coal project: Update

RICHARD, JJ
0581 52 Polychlorinated biphenyls in effluents from combustion of coal/refuse
0581 56 Dioxins not detected in effluents from coal/refuse combustion
0678 223 Organic emissions from combustion of combination coal/refuse to produce electricity

RICHARD, TG
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

RICHARDS, CL
1178 14 Conversion to coal - Fact or fiction

RICHARDS, MJ
0478 132 Investigations into firedamp emissions with reference to the coal face

RICHARDS, OJ
0480 23 Field Trial of a new mining method for thick seam coal-mining

RICHARDS, PC
0678 30 Solids handling and fluidized-bed combustion techniques developed for an HTGR fuel reprocessing pilot plant

RICHARDS, TA
0779 7 Groundhog coal area, British-Columbia

RICHARDS, WE
0180 78 Coal Technology '80

RICHARDSON, BZ
0476 21 Fourth Symposium on surface-mining and reclamation

RICHARDSON, FJ
0381 49 Enzyme oxidation of sulfides in minerals

RICHARDSON, FW
0175 70 Oil from coal

RICHARDSON, JF
0580 58 Laboratory support
0880 9 Drag reduction by air injection for suspension flow in a horizontal pipeline

RICHARDSON, MW
1081 142 Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl

RICHARDSON, SG
0579 101 Plant establishment research on disturbed arid sites in the west

RICHEY, WD
0281 278 The Fe-S-O-H system under coal liquefaction conditions

RICHMAN, M
0180 78 Coal Technology '80

RICHMOND, P
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II
0677 56 Technology and use of lignite

RICHMOND, JH
0181 7 Statistical model fitting of remote induction sounding data from underground coal gasification site-Hanna II, Phases 2 and 3

RICHMOND, JK
0475 9 First Symposium on Underground Mining, Volume I
0478 97 Coal-dust explosion barriers
0478 108 Extinguishing agents for mine face gas explosions
0481 97 Suppression of coal dust explosion by water barrier in a conveyor belt entry

RICHTER, U
1082 23 Chemical characterization of coal. 3. Qualitative and quantitative aspects of the reductive methylation of coal

RICHTER, W
0681 171 Assessment of pulverized-coal-fired combustor performance, models for coal combustion performance: analytical tool verification -topical report

RICHTER, CA
1081 29 Linear alkane chains in coals

RICHTER, GN
0181 52 Partial oxidation process with recovery of unconverted solid fuel from suspension in water

RICHTER, UD
1079 49 Studies in the chemical characterization of coal: reduction

RICK, N
0181 89 Gasification of Western coal: fuel for thought

RICKERBY, DG
1079 1 On the measurement of hardness in coal

RICKERT, P
1079 90 Hydrogen-sulfide incorporation in coal precursors: Origins of organic-sulfur in coal

RICKERT, LW
0577 29 Conversion processes

RICKETTS, TE
0775 3 Cutting experiments using a rotating water jet in a borehole

RICKMAN, WS
0180 78 Coal Technology '80
0678 30 Solids handling and fluidized-bed combustion techniques developed for an HTGR fuel reprocessing pilot plant
0680 70 High-sulfur fuel combustion in a circulating bed
0680 195 Selecting fines recycle methods to optimize fluid bed combustor performance

0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

RICKS, BL
0882 24 Alberta coal supply pipeline study - 1981
0882 64 Western Canadian coal transport by slurry pipeline

RIDDLE, JM
0480 194 Dealing with subsidence and SMCRA

RIEDEL, R
0681 170 Coal firing systems in tunnel kilns

RIEDERAUER, S
0282 137 A method for the chemical utilization of coal by liquid phase oxidation

RIEDL, FJ
0279 30 Upgrading of coal liquids. Hydrotreating and reforming SRC II process derived Naphtha
0279 204 Upgrading of coal liquids. Interim report. Hydrotreating and fluid catalytic cracking of EDS process derived gas oils
0279 211 Upgrading of coal liquids. Hydrocracking of EDS process derived gas oils. Interim report
0280 271 Deasphalting, deashing and upgrading of coal liquids

RIEHL, JW
0677 96 Mechanism of sub-micron fly-ash formation in a cyclone, coal-fired boiler

RIEKENA, ML
0281 58 Comparison of reactor systems for indirect liquefaction via Fischer-Tropsch technology
0282 78 A comparison of Fischer-Tropsch Reactors

RIELI, A
0477 183 Braking system problems off-highway vehicles

RIES, RE
0476 21 Fourth Symposium on surface-mining and reclamation
0477 92 Fifth Symposium on Surface-mining and reclamation
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute
0677 56 Technology and use of lignite

RIETEMA, K
0676 31 Fluidization technology, volume 1

RIETJENS, LH
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

RIGANO, JN
0680 167 Source assessment: dry bottom utility boilers firing pulverized bituminous coal

RIGBY, D
0781 26 The effect of maturation on the isotopic composition of fossil fuels

RIGBY, GR
0378 8 Slurry beneficiation and transportation system offers advantages for handling coking coals
0380 92 Method of recovering coal by coal handling operations and system therefor
0877 8 Pipelining-coking coals
1080 53 Coking behavior of coals recovered from slurry pipelines using a selective agglomeration technique

RIGGS, JB
0179 100 Development of a three-dimensional simulator for cavity growth during underground coal gasification
0182 72 Discovery of a mechanism for oxygen transport during UCG
0182 78 Study of the flame extinction process for coal under UCG conditions

RIHA, J
0673 1 Bench scale development of combustion and additive regeneration in fluidized-beds

RILEY, CV
0476 21 Fourth Symposium on surface-mining and reclamation

RILEY, GL
0477 157 Evaluation of coal thickness sensors, Volume I, Final Phase 1 Report

RILEY, JP
0480 215 Management of the hydrologic system in areas subject to coal mining activities

RILEY, JT
0580 54 Coal analysis services
0580 55 Analytical chemistry of coal

RILEY, KL
0278 220 The effect of catalyst properties of heavy feed hydroprocessing

RIMMER, D
0180 255 The CS/R advanced SNG hydrogasification process

RIMMER, DP
0281 71 Petrochemical feedstocks production by CS/R hydropyrolysis of Alberta Forestburg subbituminous coal

RIMMER, SM
1081 8 A Fourier transform infrared study of mineral matter in coal: The application of a least squares curve-fitting program

RINARD, G
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

RINDT, DK
0179 330 Current research on the inorganic constituents in North Dakota lignites and some effects on utilization

RINDT, JR
0280 7 UND hot-charge time-sample batch autoclave facility
0282 52 Low-rank coal liquefaction employing H//2S as a homogeneous catalyst
0282 74 Effect of added hydrogen sulfide on the liquefaction of low-rank Western coals

RINEHART, RB
0881 47 Coal Technology '81, Vol. 1

RINEHART, RL
0475 10 First Symposium on Underground Mining, Volume II

RINGEN, S
1079 56 Calculating heating values from elemental compositions of fossil-fuels

RINKENBERGER, RK
0779 12 Imagery analysis: Predicting hazards

RIPLEY, EA
0578 24 Environmental impact of mining in Canada

RIPP, JA
0881 48 Coal Technology '81, Vol. 2

RIPPE, JJ
0978 3 Application of coal petrography to exploration, preparation and sales at Pittston

RIPPEE, SN
0174 12 Coal processing technology
0274 9 Demonstration plant, Clean-boiler-fuels from coal: Volume III. Preliminary design/economic analysis
0574 19 Environmental factors in coal liquefaction plant design

RIPPERTON, LA
0578 14 Atmospheric chemistry of potential emissions from fuel conversion facilities

RIRIE, GT
0581 57 A low cost method of reclaiming strip-mined land in Iowa to agriculture

RISSER, HE
1169 2 Evaluation of fuels: long term factors and considerations

RITCEY, RM
0477 183 Braking system problems off-highway vehicles

RITCHEY, J
0479 215 Using cross-pit conveyors for maximum efficiency

RITCHIE, RO
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

RITTENHOUSE, RC
0177 52 Clean-fuels from coal: Finding the right combination

RITTER, G
0181 223 Technology and use of lignite, Vol. 1 and 2

RIXON, LK
0481 64 Outbursts and geological structures in coal mines: a review

RIYAT, SK
0478 264 Intermediate Drive Belt Conveyor. Final technical report

ROACH, PD
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

ROARK, WH
1077 45 Isotopic studies of thermally induced reactions of coal and coal-like structures

ROBB, CJ
0181 246 Catalyzing coal for industrial gasification

ROBBINS, CR
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland

0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0179 212 X-Ray powder diffraction measurements in reactive atmospheres at 1000-degrees-Celsius and 7-MPa (1000-PSIG)
0181 257 Chemical degradation of castable refractories in coal gasification process environments

ROBERT, P
1081 240 Classification of organic matter by means of fluorescence: application to hydrocarbon source rocks

ROBERT, R
0680 152 Technical planning study - Pressurized fluidized-bed combustion

ROBERTS, D
0482 73 The re-use of gateroads serving retreat faces at Betws Colliery

ROBERTS, H
0174 6 Methanation of coal gas for SNG

ROBERTS, J
0379 33 Developments in coal preparation plant design with environmental aspects in mind

ROBERTS, K
0580 42 Mineralogic composition and variability of western Kentucky coals
1172 3 Symposium on energy, resources and the environment, Volume 3

ROBERTS, M
1172 6 Symposium on energy, resources and the environment, Volume 2

ROBERTS, R
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

ROBERTS, T
0382 31 A modified laboratory cell for the flotation of coal

ROBERTS, AG
0673 29 Combustion of residual fuel-oils in fluidized-beds
0677 147 Pressurized fluidized-bed combustion, Report No. 43, Annual Report, July 1976 - June 1977
0677 155 Further experiments on the pilot-scale pressurized combustor at Leatherhead, England
0677 232 Engineer, design, construct, test and evaluate a pressurized fluidized-bed pilot-plant using high-sulfur-coal for production of electric-power, Phase 1, Preliminary engineering, PFB Combustor/Heat-exchanger rig test at Leatherhead
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 18 Development of pressurised fluidised combustion for combined cycle plant
0681 153 Heat transfer to cooling coils in the splash zone of a pressurized fluidized bed combustor

ROBERTS, DE
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

ROBERTS, GL
1077 47 Homogeneous catalytic hydrogenations of complex carbonaceous substrates

ROBERTS, JM
0878 17 Cost analysis of transportation systems for coal refuse disposal

ROBERTS, JR
0478 243 Coal-waste disposal National Pocahontas Mine

ROBERTS, RA
0176 40 Coal gasification valves, Phase I, Thermal analysis report
0177 160 Coal gasification valves, Phase I, Thermal analysis report, 8-inch, Types I, II and IV valves
0177 250 Coal gasification valves, Phase 1, Annual report, May 1976 - May 1977

ROBERTS, RD
0181 52 Partial oxidation process with recovery of unconverted solid fuel from suspension in water

ROBERTS, RR
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

ROBERTS, SC
0182 37 Shell coal gasification process
0275 22 Hydrocarbonaceous fluids from solids such as coal and oil-shale
0280 162 Process for the pyrolysis of coal in dilute-and dense-phase fluidized beds
1075 6 Process for production of hydrocarbonaceous fluids from solids such as coal and oil-shale

ROBERTSON, J
0481 85 Continuous miner noise

ROBERTSON, CE
0776 5 Prospecting and developing coal reserves in the western interior coal region

ROBERTSON, DR
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

ROBERTSON, JL
0479 63 Crushed stone proves to be a profitable product in a surface coal mine

ROBERTSON, JT
0480 44 Some practical aspects in the development of the Selby project

ROBERTSON, SD
0380 162 Assessment of the standard method of test for the grindability of coal by the Hardgrove machine
1079 40 Rapid measure of moisture in coal and total solids in coal slurries by low-resolution proton nuclear-magnetic-resonance

ROBIN, AM
0177 61 Gasification of residual materials from coal liquefaction, Evaluation of H-Coal Syncrude vacuum-tower bottoms as feedstock to Texaco coal gasification process
0177 159 Gasification of residual materials from coal liquefaction, Type II preliminary pilot-plant evaluation of H-coal syncrude vacuum tower bottoms
0177 161 Gasification of residual materials from coal liquefaction, Final report on Type I laboratory test
0177 165 Gasification of residual materials from coal liquefaction, Evaluation of vapor stripper bottoms from the USS clean coke hydrogenation process as feedstock to the Texaco coal gasification process
0177 171 Gasification of residual materials from coal liquefaction
0177 184 Gasification of residual materials from coal liquefaction, Evaluation of SRC II vacuum flash drum bottoms as feedstock to the Texaco coal gasification process
0177 247 Gasification of residual materials from coal liquefaction, Annual report, July 1976 - June 1977

0177 293 Gasification of residual materials from coal liquefaction, evaluation of H-coal settler stripped underflow as feedstock to Texaco coal gasification process
0178 178 Gasification of residual materials from coal liquefaction, Type 11 preliminary pilot-plant evaluation of SRC-11 vacuum flash drum bottoms
0178 179 Gasification of residual materials from coal liquefaction, Type 11 preliminary pilot-plant evaluation of vacuum tower bottoms from the Exxon donor solvent coal liquefaction process
0178 272 Coal processing technology, Volume IV
0178 315 Gasification of residual materials from coal liquefaction. Annual report for July 1977 - June 1978
0178 349 Gasification of coal liquefaction residues from the Wilsonville SRC pilot-plant using the Texaco coal gasification process
0179 128 Gasification of residual materials from coal liquefaction. Type III - Extended pilot-plant evaluation of SRC-II vacuum flash drum bottoms from Kentucky No. 9/14 coal
0180 198 Gasification of residual materials from coal liquefaction: Evaluation of pelletized Kerr-McGee ash concentrate as a feedstock for the Texaco coal gasification process, Final Report on Type I laboratory test
0180 199 Gasification of residual materials from coal liquefaction, Type IV sustained pilot plant evaluation of SRC-II vacuum flash drum bottoms from Powhatan coal
0278 45 Gasification of coal liquefaction residues

ROBINS, JD
0474 3 Fifth Symposium on Coal Mine Drainage Research
0476 21 Fourth Symposium on surface-mining and reclamation
0579 97 Head of hollow fills - special problems of steep slope terrain

ROBINSON, L
1078 111 Coal minerals affect sulfur in processing

ROBINSON, M
0579 43 High-temperature, high-pressure electrostatic precipitation

ROBINSON, GC
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0179 262 Pressure vessels for coal conversion systems
0278 163 Assessment of materials technology of pressure vessels and piping for coal conversion systems

ROBINSON, GL
0379 117 Environmental assessment of coal cleaning processes. Technology overview
0381 94 Use of coal cleaning for compliance with sulfur dioxide emission regulations

ROBINSON, JL
0181 47 Coal conversion

ROBINSON, JM
0278 67 Bench scale coal liquefaction studies
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

ROBINSON, JW
0776 11 Megascopic description of coal drill cores
1079 153 Selection of coals for coke making

ROBINSON, KK
0278 83 Relation of coal liquefaction catalyst properties to performance
0279 218 Coal liquefaction catalyst development, Quarterly Progress Report No. 1, March - June, 1979
0279 219 Coal liquefaction catalyst development, Quarter Progress Report No. 2, July - September, 1979

ROBINSON, LF
0180 129 Reforming of hydrocarbons

ROBINSON, RE
0676 20 CDIF combustor instrumented test section. Final report

ROBINSON, SE
0580 78 Non-Invasive magnetopneumographic estimation of lung dust loads and distribution in bituminous coal workers

ROBISON, EB
0670 0 Development of coal-fired fluidized-bed boilers

ROBL, T
0280 95 Kentucky oil shale studies
0580 38 Limestone resource characterization
0580 56 Laboratories
0680 74 Carbonate sulfur sorbent studies

ROBL, TL
0376 3 Second Symposium on Coal Preparation
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar

ROBSON, B
0177 34 A review of gasification for power generation
0178 319 Gas from coal
0179 45 Manufacture of fuel-gas for power generation by fluidized-bed gasification of coal
0180 24 The NCB coal gasification system for power generation

ROBSON, FL
0574 23 The environmental impact of coal-based advance power generating systems
0673 23 Fuel gasification and advanced power cycles - A route to clean power

ROBSON, RL
0178 189 Second generation integrated coal gasification/combined-cycle power systems

ROBSON, TM
0480 154 The design and installation of a steel cord belt in the surface drift at Cadley Hill Colliery

ROCHELLE, G
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

ROCK, KL
0681 188 Coal Technology '81, Vol. 3

ROCKLAGE, S
0280 266 Preparation and characterization of active niobium, tantalum and tungsten metathesis catalysts

ROCKLEY, MG
0780 36 Photoacoustic infrared spectra (IR-PAS) of aged and fresh-cleaved coal surfaces

ROCO, MC
0882 55 Computational approach for coal slurry pipelines

ROCZNIAK, WR
0680 226 Cofiring coal and refuse-derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation

ROD'KIN, SP
0779 42 The effect of the size grade and macroingredient composition of coal on its thermochemical conversions

1081 178 Influence of the final temperature of the pyrolysis of coal on the reactivity and nature of the interaction of the coke residues with oxygen

RODE, VV.
0278 185 Separation of the nitrogenous bases obtained in the processing of a solid-fuel
0380 125 Separation of brown-coal bitumens into wax and resin components by by zone-melting method
1079 165 Separation of brown-coal bitumens by continuous countercurrent liquid extraction
1080 75 Chemical transformations of brown-coal waxes

RODGER, ME
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

RODGERS, BR
0177 90 Coal processing technology, Volume 3
0178 272 Coal processing technology, Volume IV
0276 45 Reformation of inorganic particulates suspended in coal-derived liquids and improved separation
0277 48 Supporting Research and Development on separations technology: Final Report
0277 79 Filtration of micron-sized particles from coal liquids: Carbonaceous precoats
0280 61 Effect of chloroform - solubles in coal conversion in nonhydrogen-donating solvents
0280 190 Stability of coal-derived particles in organic media - dissertation
0280 274 Technical support to the solvent refined coal (SRC) demonstration projects: assessment of current research and development
0280 317 Assessment of current research and development in support of the US coal liquefaction demonstration plants program
0281 63 Internal rearrangement of hydrogen during heating of coals with phenol
0281 193 Experimental support for coal conversion demonstration projects at the Oak Ridge National Laboratory: preheater rheology, slurry mixing, and vacuum bottoms viscosity
1079 16 Coal Dissolution Studies: Particle size distribution in coal-derived liquids as a function of degree of coal conversion

RODGERS, ME
0677 120 Coal slag effects in MHD generators

RODGERS, SJ
0477 146 Analysis of toxic fumes generated during shot firing

RODIONOV, OS
0180 203 Production of reducing gas by gasification of anthracite fines

RODIONOVA, EK
0163 1 Underground processing of fuels

RODKIN, SP
0679 135 The CO//2 reaction capacity of cokes from petrographic microcomponents of poorly-caking Kuzbass-coals

RODRIGUEZ, L
0178 265 A thermodynamic-economic analysis of the synthane process. Final report
0180 49 Second-law efficiency analysis of a coal gasification process

ROE, DE
0577 54 EPA program status report: Synthetic-fuels from coal, including process overview with emphasis on environmental considerations

ROE, KC
0779 4 Development and testing of a microwave system to measure coal layer thickness up to 25-cm. Final technical report, September-30, 1978

ROE, SF
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

ROEBUCK, S
0580 115 Effects of underground coal mining on ground water in the Eastern United-States

ROEHL, AA
0176 36 Underground coal gasification field test in Alberta - 1976
0176 37 Alberta UCG field test - 1976
0177 77 Underground coal gasification in Canada
0177 78 Energy recovery of UCG - An Alberta field test
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 52 Underground coal gasification in Canada - Excavation of the Alberta test site
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

ROEHLER, HW
0780 18 Relation of intraformational faults to fluvial sedimentation and coal-bed discontinuity, Raton Formation, Colorado and New-Mexico
0780 29 Magnetic location of concealed igneous dikes cutting coal measures near Walsenburg, Colorado

ROEHR, JD
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

ROELEN, O
0177 25 Stoichiometric calculations for the Fischer-Tropsch Synthesis

ROEPKE, WW
0479 115 New cutting concepts for continuous miners

ROESSLER, ML
0378 27 Handling prep plant refuse with vibrating equipment

ROFER-DEPOORTER, CK
1081 226 Catalytic coal conversion support - use of laser flash-pyrolysis for structural analysis - October 1-December 31, 1980

ROFFMAN, HK
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

ROGAILIN, MI
0163 1 Underground processing of fuels
0181 151 An investigation of the graphitization of anthracites

ROGAN, FH
0181 172 A structure-based kinetic model for carbonation of sulfided dolomite at elevated temperatures
0581 20 Reaction mechanism of half-calcined dolomite during sulfidation
0677 227 Study of the Mechanism of the hydrogen-sulfide/dolomite reaction, Annual report, July 1976 - June 1977
0678 190 Study of the Mechanism of the Hydrogen sulfide/dolomite reaction, Annual report, July 1977 - June 1978

ROGERS, DE
0280 152 Hydrogenation of ion-exchanged Victoria brown coals
0281 55 Kinetics of hydroliquefaction of an Australian brown coal
0281 189 Some aspects of the behaviour of inorganic constituents of two Australian brown coals during hydroliquefaction
0676 38 CDIF-MHD generator system conceptual design - final report. Section 1, Analysis

0679 156 High slag rejection, high carbon conversion rate, air cooled cyclone coal combustor for MHD regenerative heat exchangers
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

ROGERS, DJ
0474 5 State of the art of subsidence control

ROGERS, EA
0677 113 Investigation of the corrosion performance of boiler, air heater, and gas-turbine alloys in fluidized combustion systems
0679 67 High temperature corrosion in fluidized-bed combustors

ROGERS, JA
0578 29 Water requirements for coal development

ROGERS, KA
0180 20 Synfuels processing technology
0181 185 Coal conversion readiness
0278 134 Comparison of coal liquefaction processes, Final Report on Task 006

ROGERS, LB
0281 2 Effects of normalization on feature selection in pyrolysis gas chromatography of coal tar pitches

ROGERS, MB
0181 219 Coal Technology '81, Vol. 4

ROGERS, PS
0681 101 A laboratory study of the thermal behaviour of coal minerals

ROGERS, SE
0279 127 Coal liquefaction succeeds without added catalyst

ROGERS, TF
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

ROGICH, DG
0475 9 First Symposium on Underground Mining, Volume I

ROGOWSKI, AS
0477 94 Seventh Symposium on Coal Mine Drainage Research
0580 135 Controlling the rate of acid loss from strip mine spoil

ROGOWSKI, RS
0580 0 Environmental and climatic impact of coal utilization

ROGOZEN, MB
0578 42 Water-pollution control for coal slurry pipelines, Final report
0578 91 Coal slurry-pipelines: The water issues

ROHATGI, N
0379 109 Chlorination process for coal desulfurization
0381 121 Coal desulfurization by chlorinolysis - phases II

ROHATGI, ND
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

ROHATGI, VK
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

ROHAUS, DM
0182 72 Discovery of a mechanism for oxygen transport during UCG

ROHDE, S
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

ROHDE, W
1080 56 Effect of short coking time on heat balance of coke ovens when using wet coal

ROIG, RW
0576 33 Materials-Process-Product. Model analysis of coal processing technology. Phase 1. Final report
0578 67 Materials-Process-Product analysis of coal process technology, Final report for Project Phase II, Vol. II (of 6), Part 3 process data

ROKHINA, EF
1079 224 Organosulfur compounds in the liquid products of the thermal degradation of a sulfur-rich Zabitui coal

ROLAN, RG
0577 56 Task summary report V: The design and implementation of an environmental monitoring program for ERDA fossil-fuel facilities
0578 70 A test for the draft guidelines for multimedia environmental monitoring of Department of Energy Fossil Energy RD & D Facilities
0578 71 Guidelines for multimedia environmental monitoring of Department of Energy Fossil-Energy RD & D Facilities. Volume 1
0578 72 Guidelines for multimedia environmental monitoring of Department of Energy Fossil-Energy RD & D Facilities. Volume II

ROLAND, HL
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

ROLINSKI, EJ
0576 8 Energy and the environment. Proceedings of the fourth national conference

ROLKE, DE
0180 78 Coal Technology '80

ROLLBUHLER, RJ
0680 136 Improved PFB operations: 400-hour turbine test results
0680 170 Factors affecting cleanup of exhaust gases from a pressurized, fluidized-bed coal combustor
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

ROLLER, PW
0581 23 Direct determination of trace elements in coal: Wavelength-dispersive x-ray spectrometry with matrix correction using compton scattered radiation

ROLLINS, DK
0580 2 A dimethyl and monomethyl sulfate: presence in coal fly ash and airborne particulate matter

ROLSCHAU, DW
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver,

Colorado on July 23-29, 1979, Volume III. Particulate control devices

ROMAN, A
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

ROMAN, CL
0380 33 Beneficiation: an alternative to 100-percent flue gas scrubbing

ROMANIUK, AS
1079 21 Saskatchewan coal quality factors

ROMANOV, AI
0675 12 Development and study of high temperature materials for various components of MHD installations
0678 97 Results of tests and studies of American materials in the channel of the MHD facility U-02, (phase III)
0678 98 Tests and studies of U.S.S.R. materials at the U.S. coal burning MHD facility UTSI-2
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

ROMANOVSKAYA, MV
0781 36 The inhomogeneity of the vitrinites in coals of Kuzbass
1077 80 Reflectance as an important optical characteristic of coals

ROMANOVSKII, VA
0379 70 Separation of coal with respect to ash content on screens

ROMAS, VI
0178 369 An investigation of the process of producing hot reducing gases by the gasification of coals with steam in a plasma jet

ROMBERGER, SB
0778 4 Studies of a geothermal system in Northwestern-Nevada - Part I

ROMELCZYK, SJ
0275 24 Char oil energy development, Volume 1, Final report for the period Aug. 1971 - June 1975
0275 28 Char oil energy development, Volume II - Appendix B, computer program documentation, final report for the period August 18, 1971 through June 30, 1975

ROMERO, A
1081 53 Calculation of kinetic parameters for the deactivation of heterogeneous catalyst

ROMEY, I
0280 46 New coal hydrogenation process: proven effective by three-year experimental plant experience
0281 289 Filtering coal liquids: Cleaning of coal oils by filtration
0681 83 Carbon fibres from coal-tar pitch

ROMOVACEK, GR
1082 24 Volatility test for bituminous materials

RONCA, LB
0780 39 Rupturing criteria of coal bearing strata, W. Canada

RONG, SX
0682 33 Modeling of shallow fluidized bed reactors. 1. Analytic solution of a simplified model

ROOKE, D
0179 172 Gas- -the road ahead

ROONEY, NM
0676 32 Fluidization technology, volume 2

ROOP, RD
0578 15 Coal conversion and aquatic environments: Overview of impacts and strategies for monitoring

ROPER, WD
0476 23 Second Symposium on Underground Mining

RORTGEN, HG
0881 5 Coal gasification and liquefaction solutions for energy transport

ROSA, RJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

ROSBACK, DH
1080 176 An energy-saving separation scheme

ROSBOROUGH, WW
0677 61 Material handling systems for the fluidized-bed combustion boiler at Rivesville, West-Virginia

ROSCH, S
0281 341 Selectivity of the Fischer-Tropsch CO-hydrogenation

ROSCOE, JC
0680 66 The temperature of coke particles in a fluidised combustor

ROSCOE, JD
0478 134 Failure, design and installation of large coal and ore stacker reclaimer slew bearings

ROSE, K
1081 155 O-Alkylation chemistry of coal and its implications for the chemical and physical structure of coal

ROSE, AW
0476 22 Sixth Symposium on Coal Mine Drainage Research

ROSE, DJ
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

ROSE, JG
0376 3 Second Symposium on Coal Preparation
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar
0379 35 Proposed coal pillaring procedure using concrete containing coal refuse (coal-crete)
0379 90 Use of energy-efficient sintered coal refuse in lightweight aggregate
0480 72 Kentucky coal mine and classification plant wastes and mine overburden as useful and economic building materials
0580 31 New uses for coal refuse as construction materials

ROSE, JM
0181 223 Technology and use of lignite, Vol. 1 and 2

ROSE, KD
0281 285 Silicon-29 NMR: A new tool for coal liquids characterization

ROSE, LA
0881 2 How to model your coal-handling system to optimize availability, cut costly time

ROSECRANCE, AE
0580 151 Organic material emissions from holding ponds at coal-fired power generation facilities

ROSEN, S
0680 240 Bed expansion and heat transfer measurements in a pressurized fluidized bed

ROSENBERG, CR
0579 35 Forest composition at varying distances from a coal-burning power-plant

ROSENBERG, HS
0378 13 How good is flue-gas desulfurization?
0580 17 Technical aspects of the lime/limestone scrubbers for coal-fired power plants. Part 1 Process chemistry and scrubber systems

ROSENBERG, JI
0477 94 Seventh Symposium on Coal Mine Drainage Research
0479 251 An economic assessment of labor supply and demand in the coal mining industry through 2000

ROSENBERGER, FE
0680 140 Coal-fired cycling operation at Illinois Power's Havana Station

ROSENDAHL, TE
0476 20 Personal protection against respirable dust

ROSENHOOVER, WA
0279 158 Regeneration of 'spent' ZnCl//2 production catalyst from hydrocracking subbituminous coal
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979
1081 40 Method for the regeneration of spent molten zinc chloride

ROSENTHAL, JW
0281 146 Two-stage coal liquefaction process with process-derived solvent having a low heptane-insolubiles content
0282 90 The Chevron coal liquefaction process (CCLP)

ROSHCHINA, AA
1081 130 The strength characteristics of coke fillers of carbonaceous materials

ROSNER, D
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

ROSS, J
0180 145 Research needs for coal gasification and coal liquefaction

ROSS, BA
0180 286 Coal electric generation and coal gasification as home energy sources

ROSS, CA
0779 15 Depositional setting and coal petrology of Tulameen coalfield, South-Central British-Columbia

ROSS, DS
0279 49 Alcohols as H-donor media in coal conversion. 1: Base-promoted H-donation to coal by isopropyl-alcohol
0279 50 Alcohols as H-donor media in coal conversion. 2: Base-promoted H-donation to coal by methyl-alcohol
0281 83 Coal structure cleavage mechanisms: Scission of methylene and ether linkages to hydroxylated rings
0282 24 Coal conversion in aqueous systems
0377 83 Alcohols as hydrogen-donor solvents for treatment of coal

0378 11 Hydroconversion of a bituminous coal with carbon monoxide water
1077 46 Supercritical solvents and the dissolution of coal and lignite
1077 48 Hydrotreatment of coal with aluminum trichloride/hydrochloric acid and other strong acid media

ROSS, DW
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

ROSS, FF
0677 2 The Assessment and Maintenance of Electrostatic Precipitators for Pulverised Coal Boilers

ROSS, MH
0179 165 Lawrence Livermore Laboratory studies solar coal gasification
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

ROSS, RH
0577 33 Environmental interactions

ROSS, JRH
0177 32 Effect of temperature of reduction on the activity and selectivity of a coprecipitated nickel-alumina catalyst for the Fischer-Tropsch and Methanation reactions

ROSS-DUNN, A
0478 190 Strip mining for coal

ROSSBACH, M
0178 89 Symposium on Coal Refining, Proceedings
0180 308 Saarberg - Otto gasification process

ROSSI, G
0381 100 Beneficiation methods for coal desulphurization

ROSSI, JV
0181 234 Repowering a steam turbine plant with commercially available coal gasification combined-cycle equipment

ROSSING, BR
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0677 119 The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0678 236 Electrochemical corrosion of MHD-electrodes in slags
0679 170 Development, testing and evaluation of MHD materials and component designs, final report
0679 178 The effect of electrochemical and arcing phenomena on electrode performance

ROSSMEISSL, NP
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 199 Preparation and burning of coal/water slurry

ROSSO, W
0579 92 Water: resource or liability in surface mining

ROSSO, WA

0477 92 Fifth Symposium on Surface-mining and reclamation
0477 94 Seventh Symposium on Coal Mine Drainage Research
0580 88 Reclaim your land with lakes

ROSTOW, WW
1178 17 National energy policy: A continuing assessment

ROSTRUP-NIELSEN, JR
0180 237 Catalytic aspects of high temperature methanation

ROSZKOWSKI, TR
0174 58 The RMProcess

ROTARIU, GJ
0579 4 Environmental development plant magnetohydrodynamics

ROTH, LP
0678 32 Eductor performance in the coal-feed system of a fluidized-bed combustor

ROTH, RS
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
1076 8 Crystallization and vaporization studies on synthetic coal-slag compositions

ROTHENBERG, SJ
0680 84 Respirable aerosols from fluidized bed coal combustion - 2. Physical characteristics of fly-ash
0680 90 Coal combustion fly-ash characterization: Adsorption of nitrogen and water
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
1080 10 Coal combustion fly ash characterization. Rates of adsorption and desorption of water

ROTHMAN, SN
0274 5 Application of COED process coal-derived liquids

ROTTENDORF, H
0280 36 Catalytic hydrogenation of Liddel bituminous coal: Effects of process variables on coal dissolution in batch autoclaves
0282 32 Effect of temperature, catalyst and charge gas on the mean chemical structures of the products from hydrogenation of Liddell coal

ROTTY, RM
0578 3 Question mark over coal. Pollution, politics, and carbon dioxide
0579 52 Atmospheric carbon dioxide consequences of heavy dependence on coal

ROUGHTON, E
0680 55 A proposed on-line efficiency method for pulverized-coal-fired boilers

ROUGHTON, JE
0680 123 A proposed on-line efficiency method for pulverized-coal-fired boilers

ROUND, GF
1063 1 The pipeline flow of coal-in-oil suspensions

ROUNDHILL, DM
0180 164 Catalysis by multimetallics. Catalyzed homogeneous oxidation of alcohols, ketones and triphenylphosphine with molecular oxygen in the presence of hexarhodium dodecacarbonyl and dirhenium decacarbonyl

ROUSCHEV, DD

0680 127 Study of initial oxidation processes in bituminous coals and anthracites by manometric methods

ROUSE, JD
0681 191 Grinding of coal slurries with the Szego mill

ROUSSEAU, RW
0180 35 How clean gas is made from coal
0180 193 Coal gasification/gas cleanup test facility: Volume 1. Description and Operation

ROUTLEDGE, HL
0480 93 Failure of electrical insulation by tracking

ROVESTI, W
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

ROVESTI, WC
0180 26 Synthetic liquid fuels
0277 30 Conversion of Western United-States-coals to liquid products
0280 37 Characterization and combustion of SRC II fuel oil
0678 51 Utilization of coal-derived liquid fuels in a combustion turbine engine

ROWCLIFFE, DJ
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

ROWE, A
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

ROWE, JE
0579 74 Coal surface mining: impacts of reclamation

ROWE, MD
0580 16 Human exposure to sulfates from coal-fired power plants

ROWE, MW
1081 185 A new method for analysis of pyrite in coal and lignite

ROWE, PN
0582 11 A model for desulphurisation with limestone in a fluidised coal combustor
0676 32 Fluidization technology, volume 2
0678 115 Mixing and segregation of a small proportion of large particles in gas fluidized-beds of considerably smaller ones

ROWE, VR
0480 91 Spontaneous combustion susceptibility of U.S. coals

ROWELL, RL
0281 32 Coal-oil mixtures. 2. Surfactant effectiveness on coal-oil mixture stability measured with a sedimentation column device
0281 33 Coal-oil mixtures. 3. Stabilization of powders vs. colloids: Coal/oil vs carbon-black/oil systems

ROXBOROUGH, FF
0481 40 Tests on the cutting performance of a continuous miner

ROY, C

0280 56 Statistical study on the batch conversion of Estevan lignite into oils using carbon-monoxide and hydrogen mixtures

ROY, P
1079 32 Microbial removal of organic sulfur from coal

ROY, AK
0281 187 Solvent extraction of coal at low pressure with a coal tar oil solvent-anthracene oil

ROY, AN
0179 245 Performance of an autothermal gasifier for the production of synthesis gas

ROY, GD
0681 154 On coal conversion with a variable pressure combustor

ROY, KJ
0777 17 Geology of King-Christian Island, District of Franklin

ROY, WR
0681 38 Coal fly ash: a review of the literature and proposed classification system with emphasis on environmental impacts

ROYCHAUDHURI, KK
0976 2 A methodology of systematic quality assessment of coal seam under exploration

ROYER, RE
0280 289 Hydrotreatment and biological test of SRC-II coal liquid
0281 240 Hydrotreatment and biological test of SRC-II coal liquid

ROYLANCE, TF
0277 0 Simulated solution mining of a Utah bituminous coal

ROZANTSEV, ES
0477 65 Modeling disturbances in a mine ventilation system caused by gas-bursts
0480 199 Influence of vibration on the motion of gas in a coal seam

ROZELLE, RB
0474 3 Fifth Symposium on Coal Mine Drainage Research

ROZHNOVA, EE
0378 66 New nonpolar reagent for coal flotation

ROZSA, R
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

ROZSA, RB
0175 6 Overview of laboratory experiments in support of the Lawrence Livermore Laboratory in-situ coal gasification program
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 173 In-situ coal gasification: Model calculations and laboratory experiments

RUANE, RJ
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0477 94 Seventh Symposium on Coal Mine Drainage Research
0578 36 Environmental evaluation of ash disposal at coal-fired power-plants
0578 57 Characterization and reuse of ash pond effluents in coal-fired power-plants

RUBAN, VA
1077 84 Comprehensive utilization of the mineral components of coals

RUBEL, A
0280 96 Shale oil analysis
0280 102 Compositional analysis of H-coal liquids

RUBENSTEIN, AS
0478 247 Evaluation of a flywheel-powered shuttle car. Final technical report

RUBERTO, RG
0278 29 Kinetics of thermal liquefaction of Belle-Ayr sub-bituminous coal
0278 105 Application of carbon-13 nuclear-magnetic-resonance spectrometry to coal chemistry: Calculation of transferable hydrogen
0279 110 Effect of solvent extraction sequence on the apparent distribution of coal liquid products
0280 345 Investigations of mechanisms of hydrogen transfer in coal hydrogenation - Final Report
0280 351 Investigation of the liquefaction of partially dried and oxidized coals
0281 95 Free radicals in coal and coal conversions. 5. Methodology for the in-situ investigation of free radicals in coal depolymerization under SRC-II preheater/reactor conditions
0281 192 Kinetic models for donor-solvent coal liquefaction
0282 17 Kinetics of thermal liquefaction of coal
0282 157 Hydrogen/deuterium transfer in coal liquefaction
1077 37 Oxygen and oxygen functionalities in coal and coal liquids
1081 113 Association-dissociation problems in characterizing asphaltenes in coal liquids

RUBIN, B
0174 37 An assessment of United-States energy options for project independence

RUBIN, AJ
0382 23 Recovery of fine-particle coal by colloid flotation

RUBIN, DB
0578 38 Chemistry and biological hazard of a coal-ash seepage stream

RUBIN, DR
0278 102 The separation of clays and major minerals in coal residues from coal and petroleum derived solvents

RUBIN, ES
0473 1 A program of Research, Development and Demonstration for enhancing coal utilization to meet National Energy Needs
0474 1 Research and development needs for enhancing United-States coal utilization
0574 9 Some implications of environmental regulatory activities on coal conversion processes
0577 12 A methodology for assessing cross-media environmental impacts of coal conversion plants
0578 53 Cross media environmental impacts of air-pollution regulations for a coal-fired power-plant
0579 47 Cross-media environmental impacts of coal-fired power-plants: An approach using multi-attribute utility theory
0580 98 Air pollution emissions from increased industrial coal use in the northeastern United States
0678 11 A systematic approach to characterizing energy-environment tradeoffs for coal utilization technologies
1176 6 Current and future use of coal in the northeast

RUBIN, IB
0177 90 Coal processing technology, Volume 3
0579 73 Value of chemical fractionation for identifying the toxic compounds of complex aqueous effluents

RUBIN, LA
0477 62 Detection, delineation and location of hazards using ground-probing-radar in coal mines
0477 158 Mine roof stratigraphy using electromagnetic radar

RUBIN, LS
0481 162 Mine waste disposal technology

RUBIN, MN
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0476 23 Second Symposium on Underground Mining

RUBINCHIK, VB
1079 133 Formation of silicon-monoxide during processing of carbonaceous rock from the Ekibastuz coal fields in a plasma

RUBINSTEIN, I
1080 47 Analysis of Cold Lake bitumen hydrocarbons by combined GLC-field ionization mass-spectrometry and GLC-electron impact mass-spectrometry

RUBOW, KL
0478 15 An evaluation of the GCA-respirable-dust-monitor-101 - 1
1077 69 Dynamic particle size measurement of coal-dust

RUBY, JD
0180 78 Coal Technology '80
0181 223 Technology and use of lignite, Vol. 1 and 2

RUCH, RR
0279 190 Chemical and mineralogical characterization of coal liquefaction residues
0574 7 Distribution of trace-elements in coal
1073 12 Trace-elements in coal by neutron activation analysis with radiochemical separations

RUDAKOV, ES
1079 228 Polarographic analysis of mellitic and pyromellitic acids and their mixtures

RUDAWSKY, O
0477 11 Economic Feasibility studies in Mineral and Energy Industries

RUDDOCK, HA
0579 77 Measurements of sulfuric acid at Tennessee Valley Authority coal-fired power plants using condenser method

RUDINS, G
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

RUDNICK, LR
0281 269 The effect of solvent compositions on the liquefaction behavior of western subbituminous coal
0281 342 Fundamental studies in the conversion of coals to fuels of increased hydrogen content, Volume 1: the chemistry and mechanisms of coal conversion to clean fuel - Interim Report
0281 343 Fundamental studies in the conversion of coals to fuels of increased hydrogren content, Volume 2: the chemistry and mechanisms of coal conversion to clean fuel - Appendixes - Interim Report

RUDOLPH, PF
0172 20 The Lurgi Process, the route to synthetic-natural-gas from coal
0174 28 Lurgi Information - Processing of American-coals in a Lurgi gasifier
0175 36 Lurgi Information - Conversion of coal to high-value products
0177 13 Coal Gasification
0177 20 Art of Coal Gasification
0180 184 How to apply coal gasification

RUDOLPH, PFH

0178 89 Symposium on Coal Refining, Proceedings

RUDY, CE
0278 142 Refining and upgrading of synfuels from coal and oil-shales by advanced catalytic processes. Final interim report, Processing of Paraho Shale-Oil
0279 227 Refining and upgrading of synfuels from coal and oil shales by advanced catalytic process - Second Interim Report Laboratory and Pilot Plant studies of the processing of SRC-I

RUEDISILI, LC
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

RUEFF, AW
1076 28 Chemical analyses of selected Missouri-coals and some statistical implications

RUEFLI, TW
1178 17 National energy policy: A continuing assessment

RUETCKE, SJ
0381 112 Coal fines recovery and utilization

RUETER, H
0977 2 Is it possible to increase the resolution in seismic exploration for coal by using high frequency signals?

RUETHER, JA
0379 14 Steady-state thermal analysis of a reactor for removal of sulfur from coal by oxygen/water selective oxidation
0379 46 Chemical coal cleaning
0379 56 Reaction in a cascade of continuous stirred tank reactors of particles following the shrinking core model
0380 147 Air/water oxydesulfurization of coal - Laboratory investigation

RUFFIN, DS
0680 167 Source assessment: dry bottom utility boilers firing pulverized bituminous coal

RUGG, D
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

RUGGIERI, SK
0479 198 Design, fabrication and demonstration of an inert gas generator. Volume 1, Final report

RUKIN, EI
0277 87 Study of the hydroxylation of coal

RUKIN, EJ
0877 17 Economics of mineral and brown coal pipeline hydrotransport

RUMYANTSEVA, ZA
0279 121 Investigation of the water-soluble acids of an ethanol-benzene extract of weathered brown-coal
1079 147 Determination by the chromato-mass-spectrometic method of the individual compositions of the water-soluble acids obtained by oxidizing coals
1079 178 Individual composition of the water-soluble polycarboxylic acids obtained by the oxidation of humic coals
1081 207 The individual composition of the high-molecular-weight fraction of water-soluble polycarboxylic acids obtained in the oxidation of humic coals

RUMYNTSEVA, ZA
1081 118 The molecular structure of the water-soluble products of the oxidation of humic coal

RUNDELL, DN

0280 45 Experimental techniques for studying the fluid dynamics of the H-coal reactor
0280 265 H-coal fluid dynamics - Study of ebullated bed fluid dynamics for H-coal - Final Report

RUNDLE, LM
0477 107 The Hanginghill farm (1970) borehole, south Derbyshire coalfield

RUNDQVIST, S
1081 142 Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl

RUNGE, IC
0479 162 Pit design optimized for dragline productivity

RUO, T
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

RUPERT, GB
0477 55 Criteria for the proximity of surface-blasting to underground coal mines
0477 95 Third Symposium on Underground Mining
0776 4 Geophysical approaches to coal exploration, a review

RUPIK, T
0881 48 Coal Technology '81, Vol. 2

RUPPEL, TC
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

RUPPRECHT, G
0280 266 Preparation and characterization of active niobium, tantalum and tungsten metathesis catalysts

RUPRECHT, P
0180 45 Ruhrchemie-Ruhrkohle technical version of the Texaco coal gasification operating at Oberhausen-Holten
0181 126 Energy from coal: A status report on the Ruhrchemie/Ruhrkohle version of Texaco's coal gasification process operating at Oberhausen, West Germany
0182 14 Autothermal coal gasification

RUS'YANOVA, ND
0779 25 Matir infrared spectra of coals of the rank series
1078 174 New information of the chemical structure of coals
1078 178 The change in the infrared spectrum when coal is heated in a tablet with potassium bromide
1078 179 Ideas concerning the chemical structure of coals
1080 94 Effect of crushing coal on its IR spectrum
1080 179 IR spectroscopy of coal. Distortions of the spectra of coals in tablets with potassium bromide
1081 123 The IR spectroscopy of coals. Method of obtaining spectra in the region of hydroxyl absorption
1081 132 Structure and intermolecular interactions in coals and their influence on treatment processes
1081 151 Experience of the use of the method of powder thermomechanics for investigating coals
1081 210 The use of diffuse reflection spectroscopy for obtaining the electronic spectra of coals

RUSCHEV, DD
0679 172 On the autooxidation of the coals used at the Kremikovtsy coke works
1079 164 Binding properties of pitch from shale carbonization oil

RUSH, WF
0182 111 An exploratory study of a combined sonic agglomeration and crossflow filtration system for hot gas cleanup

RUSINOVSKAYA, NN
1080 130 Influence of the 'alpha'//1 and 'alpha'//2 fractions on the low temperature carbonization of coal tar pitch

RUSKAN, RP
0182 18 Economic evaluation of synfuels plants

RUSKEY, F
0776 3 High-resolution seismic-reflection techniques for mapping coal-seams from the surface

RUSSEL, WB
0181 220 Short-residence-time hydopyrolysis of coal - Technical Progress Report for the periods, 1 October - 31 December, 1980, 1 January - 31 March, 1981
0281 77 On the short-residence time hyropyrolysis of single coal particles: the effect of unequal diffusivities

RUSSEL, WG
0179 215 Model for short residence time hydropyrolysis of single coal particles

RUSSELL, D
1077 103 Federal leasing: The need for a persepective

RUSSELL, J
0279 190 Chemical and mineralogical characterization of coal liquefaction residues .

RUSSELL, S
0280 86 Catalysis research/liquefaction
0280 97 Development of sulfur tolerant dispersed metal catalysts for coal conversion processes

RUSSELL, CE
0880 41 Kansas City Power and Light Company's history of frozen coal problems and its experience with mine application of freeze-conditioning additives (FCA) during 1980

RUSSELL, DD
0478 159 Remote sensing of strippable coal reserves and mine inventory in part of the Warrior coal field in Alabama

RUSSELL, LH
0280 141 Hydrogenation of carbonaceous materials

RUSSELL, NJ
0280 4 Some aspects of the behaviour of tin chloride during coal hydrogenation in the absence of a solvent
0281 80 Hydrogenation of Tasmanian alginite in the presence of tin(II) chloride and zinc chloride
0281 81 Hydrogenation of Tasmanian alginite - analysis of hexane-soluble products by thermal distillation-gas chromatography-mass spectrometry
0282 12 Coal liquefaction model: microscopic examination of solids from metal halide catalysed coal hydrogenation experiments
0282 136 Hydrogenation of Liddell vitrinite: effects of metal halide catalysts in the temperature range 200-480-deg-C
0976 0 Coal Exploration
1079 10 Microscopic observations of the swelling of a high-volatile bituminous coal in response to organic solvents

RUSSELL, OR
0479 7 Remote sensing and mine subsidence

RUSSELL, PE
1078 29 Magnetic hyperfine parameters of iron containing minerals in coals

RUSSELL, SJ
0277 24 Characterization by scanning electron microscopy of mineral matter in residues of coal liquefaction
0279 47 Calibration standard for X-ray-diffraction analyses of coal liquefaction residues: Moessbauer spectra of synthetic pyrrhotite
1080 31 Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal-conversion processes

RUSSO, G
0676 32 Fluidization technology, volume 2
0679 78 Operative variables of a pre-pilot plant for fluidized-bed combustion
0679 143 Calculation of carbon load and axial profiles of oxygen concentration in the bed of a fluidized combustor

RUSSO, AJ
0679 12 A user's manual for the magnetohydrodynamic generator channel code, MHDCHN

RUSSO, RC
0580 117 Environmental effects of Western coal combustion: Part III - The water quality of Rosebud-Creek, Montana

RUSYANOVA, ND
1078 169 The possibility of the use of the method of attenuated total internal reflection for obtaining infrared spectra of coals

RUTH, LA
0676 32 Fluidization technology, volume 2
0677 38 Sorbent regeneration in fluidized-bed combustion
0677 172 Regenerable sorbents for fluidized-bed combustion
0677 174 Pressurized FBC studies II. sorbent regeneration and particulate control
0677 255 Studies of the pressurized-fluidized-bed coal combustion process
0678 226 Developing regenerable SO//2 sorbents for fluidized-bed coal combustion using thermogravimetric analysis
0679 97 New regenerable sorbents for fluidized-bed coal combustion
0680 143 Control of emissions from the pressurized fluidized bed combustion of coal

RUTH, TJ
1079 60 Oxygen content of selected coals as determined by charged particle activation analysis

RUTHERFORD, HE
0479 19 Raise boring 20-ft diameter shafts

RUTHS, MA
0477 192 The Reference-correction method for improving accuracy in the seismic location of trapped coal miners

RUTKOWSKI, A
0282 21 A kinetic study of the supercritical toluene extraction of coal at 9.8 MPa

RUTLEDGE, AL
0482 105 Water drainage through waste dumps at Fording Coal Limited

RUTLEDGE, GD
0173 5 Production of clean fuel-gas from bituminous coal

RUTTER, D
0477 7 How the British train their miners

RUUD, AL
1077 55 Temperature effects on coal liquefaction: Rates of depolymerization and product quality as determined by gel-permeation-chromatography

RYABCHENKO, AD
0380 160 Coking a preheated charge with a high content of gas coal at the Western Siberia Iron and Steel Works

RYAN, DF
0282 110 EDS coal liquefaction products as petrochemical feedstocks

RYAN, JD
0173 10 Operations: Carbon-dioxide-acceptor process gasification pilot-plant. Final report, Volume 6, Book 1 of 2, January 1972 - June 1973
0174 21 Operations: Carbon-dioxide-acceptor process gasification pilot-plant, Final Report, Volume 7, July 1973 - July 1974

RYAN, JM
0182 41 Process improves acid gas separation

RYAN, JW
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

RYAN, LM
1079 247 A tenative identification of average aromatic ring size in an Iowa vitrain and a Virginia vitrain

RYAN, PJ
0979 10 Basinal analysis of the ecca and lowermost beaufort beds and associated coal, uranium and heavy mineral beach sand occurrences

RYAN, PW
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

RYAN, RH
0180 183 Evidence indicating metal clusters are catalysts in organic reactions

RYAN, RL
0180 217 Analytical procedures used in characterization of knockout-pot condensates from the Pricetown I underground gasification
0180 218 Characterization of Pricetown I underground gasification knockout pot condensates

RYAN, RS
0678 47 Commercialization of fluidized-bed combustion systems by the state of Ohio

RYASON, PR
0178 27 New method of feeding coal: Continuous extrusion of fully plastic coal
1077 30 Coal extrusion in the plastic state

RYBA, ER
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

RYBA, SJ
0479 205 Focusing on the tough illumination problems underground

RYBACKI, Z
0679 155 One-stage cyclone-combustors for coal-fired test stand of 4mw thermal power

RYBAK, W
0680 133 Evaluation of kinetic parameters of coal ignition
0681 67 An analysis of critical ignition and extinction diameters of solid particles

RYBAK, SC
0477 150 Study and analysis of an automatic control system for a boring type continuous miner, Final technical report

RYCHKUN, EA

0981 6 Coal prospect evaluation with a graphics oriented desktop computer system

RYER, TA
0780 15 Deltaic coals of the ferron sandstone member of the Mancos Shale: predictive model for cretaceous coals of the western interior

RYNDIN, YA
0281 204 Effects of metal-support interactions on the synthesis of methanol over palladium

RYZHIK, AB
0478 297 Inhibition of the ignition of coal-dust aero-colloids

RZHEVSKY, VV
0476 8 Method for reducing gas and dust emission from a coal seam

SAAD, ET
0277 139 Separation of ash and uncovered coal particles from liquefied coal by flotation - dissertation
0278 102 The separation of clays and major minerals in coal residues from coal and petroleum derived solvents

SABANSKI, M
0682 53 Davy S-H process for flue gas desulfurization

SABBIONI, E
0581 67 Mobilization of heavy metals from coal-fired power-plants: Potential impact on groundwater

SABER, AJ
0182 40 A Canadian program for in-situ coal conversion

SABHARWAL, VP
0180 240 A study on fusion behaviour of coal ashes for gasification of coal

SABOURIN, ET
1076 23 Conversion of carbonaceous material
1080 90 Nitro-substituted polyaromatic polycarboxylic acid compositions and processes for their preparation from coal based materials

SACHDEV, AK
0181 37 Steam gasification of lignite char
0281 339 Conversion of lignite coal into oil
0682 35 Analysis of a filter bag reactor for gaseous pollution abatement

SACHDEV, DR
0180 78 Coal Technology '80

SACK, S
0174 12 Coal processing technology

SACK, WA
0579 58 Estimation of retention of pollutants on unburned coal after in-situ gasification

SACKETT, WM
1078 115 Carbon isotope fractionation during coal pyrolysis

SACKS, HK
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0475 10 First Symposium on Underground Mining, Volume II
0477 95 Third Symposium on Underground Mining

0577 3 Guidelines to quieting noise in preparation plants
0577 8 Reducing screen-noise in coal cleaning plants

SACKS, ME
0270 4 Char Oil Energy Development, The Desulfurization of COED Char - Part III

SADDY, M
0679 197 Economics and concepts of industrial coal fluidized bed combustion in Brazil

SADLER, CK
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SADLER, JE
0879 38 Raw material storage and flow considerations

SADLER, JH
0176 84 Apparatus for converting coal into gas substitutes

SADLER, JW
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0679 170 Development, testing and evaluation of MHD materials and component designs, final report

SADLER, LY
0176 19 Refractory-Lining-materials for coal gasifiers
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 27 Evaluation of refractory line materials for use in nonslagging, high-Btu coal gasifier reactors

SADLOWE, AR
0379 4 Dry coal handling and feeding test facility feasibility study

SADNICKI, M
1177 43 Medium-term aspects of a coal revival: Two case studies, Report of the IIASA Coal Task Force

SADOWSKI, EP
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 64 Development of a corrosion resistant nickel-chromium-titanium filler metal

SAGAN, LA
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

SAGE, PW
0280 294 The thermal cracking of coal-derived materials
0281 245 The thermal cracking of coal-derived materials
1080 152 A review of the vapour phase cracking of coal-derived materials and some model compounds to BTX
1081 57 Thermal cracking of coal-derived materials to BTX and ethylene

SAGE, WL
0278 66 Characteristics of Solvent-Refined-Coal: Dual register burner tests
1059 5 Relationship of coal-ash viscosity to chemical composition

SAGEMAN, DR
0176 117 Countercurrent plug-like flow of two solids

SAGER, RK
0177 275 Coal conversion: Practical and legal implications

SAGUES, A
0280 68 Distillation tower corrosion: Synergistic effects of chlorine and phenolic compounds in coal liquids
0280 69 Materials testing for H-coal pilot-plant
0280 70 Materials testing for the H-coal process development unit (PDU)
0280 75 Failure analysis addressing SRC distillation tower corrosion
0280 76 SRC coal liquids-corrosion experiments
0280 80 Hydrogen attack
0280 81 Dissolver vessel environment corrosion
0280 82 Naphthenic acid corrosion
0280 83 Erosion of materials in coal liquid streams
0280 103 Chloride analysis of SRC liquids from high corrosion distillation tower areas
0280 128 Distillation Tower Corrosion: Chemical analysis of solvent refined coal process samples for chloride, acidic and basic compounds
0580 56 Laboratories
0680 75 Materials testing for AFBC
0680 76 Corrosion in gaseous media

SAGUES, AA
0282 42 Monitoring corrosion through metal levels of streams

SAGUINSIN, JL
0581 99 The Northeast regional environmental impact study - Waste Disposal technical report

SAHA, AK
0678 154 Evaluation of a pressurized fluidized-bed combustion (PFBC) combined-cycle power-plant conceptual design. Final report. Volume II. Commercial-plant design description and economic analysis, Subtask 1.2

SAHAGIAN, J
0175 83 Kinetics of the activated carbon-steam reaction

SAHAY, GN
0180 90 Cold-model studies of agglomerating gasifier discharge behavior

SAHNI, VC
1078 40 Charge-transfer study of FeAl and CoAl using compton-scattering

SAHOO, B
0482 107 Atomic absorption spectrophotometric and x-ray studies of respirable dusts in Indian coal mines

SAIGA, K
0676 32 Fluidization technology, volume 2

SAIKIA, BK
1080 58 Petroporphyrins in Indian crude oils

SAIN, S
0578 85 Preliminary evaluation of PETC-coal conversion solid and hazardous wastes, Progress report for September 1977 - September 1978

SAINT-JUST, J

0278 181 Asphaltene adsorption in solution and catalyst characterization

SAITO, K
0281 97 Quantitative FT 13C N.M.R. of solvent-refined coals using sym-triazine as solvent
1077 54 Comparison of solvent-refined-lignites with solvent-refined bituminous coals
1079 99 Evaluation of solvents for carbon-13 n.m.r. analysis of solvent-refined-coals

SAITO, M
0282 199 Apparatus for supplying raw liquid and relieving pressure of high-pressure produce liquid

SAKAGUCHI, M
1081 60 Copolymerization of methylmethacrylate on a ball-milled surface of coal at 77 K

SAKAI, M
1081 25 Determination of viscoelastic properties of pitches by torsional creep
1081 75 Determination of intrinsic viscosity of fractionated pitches and discussion on the shape and size of pitch molecules

SAKAI, T
0676 31 Fluidization technology, volume 1

SAKAMOTO, M
0282 199 Apparatus for supplying raw liquid and relieving pressure of high-pressure produce liquid

SAKAMOTO, Y
0581 68 State of the art in desulfurization system for preventing environmental pollution caused by flue-gas from coal fired power stations

SAKASHITA, H
0282 4 Hydrogenation of Yubari coal coated wth ZnCl//2-MCl//n(CuCl, CrCl//3, and MoCl//5) catalyst melts
0282 9 Catalytic activities of binary molten salts composed of ZnCl//2 and metal chlorides for hydrocracking of phenanthrene

SAKATA, K
0181 67 Gasification studies of cokes from coals. The effects of carbonization pressure on optical texture and porosity

SAKATA, Y
0181 116 Effects of catalysis and composition of inlet gas on gasification of carbon and coal

SAKAWA, M
1082 66 Influence of coal characteristics on CO//2 gasification

SAKHA, S
0379 129 Improved process for demineralisation of coal by oil agglomerisation technique

SAKHAROV, VI
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SAKHUJA, A
0678 201 Feasibility of spraying and feeding fully plasticized coal

SAKISAKA, M
1172 3 Symposium on energy, resources and the environment, Volume 3

SAKURAI, H
0179 298 Steam-reforming of residual oils in the fluidized bed of nickel-dolomite catalyst

SAKURAI, S
1079 190 Carbonization behavior of coal briquettes

SAKURAI, Y
1082 66 Influence of coal characteristics on CO//2 gasification

SALA, C
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SALA, RJ
0281 32 Coal-oil mixtures. 2. Surfactant effectiveness on coal-oil mixture stability measured with a sedimentation column device
0281 33 Coal-oil mixtures. 3. Stabilization of powders vs. colloids: Coal/oil vs carbon-black/oil systems

SALAMA, AI
0382 15 Simulation of density separators in Canadian coal preparation-plants
0382 17 Some EMR facilities in western Canada for R & D on beneficiation of Canadian coals

SALEEM, A
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0678 9 Particulate and sulfur oxide control options for conventional coal combustion

SALIM, S
0278 223 Chemical changes produced in coal through the action of Lewis acid catalysts

SALIM, SS
0282 147 Effects of Lewis acid catalysts on the hydrogenation and cracking of two-ring aromatic and hydroaromatic structures related to coal

SALIUNAS, JR
0476 22 Sixth Symposium on Coal Mine Drainage Research

SALMAN, T
0381 96 Interfacial phenomena in coal flotation systems

SALMON, R
0178 106 The economics of electricity and SNG from in-situ coal gasification
0178 272 Coal processing technology, Volume IV
0178 305 A review of the Badger Report FE-2416-24, conceptual design of a coal-to-methanol commercial plant, Feb. 1978
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 52 Evaluation of an in-situ coal gasification facility for producing M-gasoline via methanol
0179 69 Process designs and economic evaluations for the linked-vertical-well in-situ coal gasification process
0179 93 Economics of producing gasoline from underground coal gasification synthesis-gas
0277 2 Evaluation of the Synthoil Process, Volume 1, Process Design and Economic Evaluation of a 100,000 barrel/stream day facility
0277 31 Evaluation of the Synthoil process, Volume III, Unit block flow diagrams for a 100,000 barrel/stream day facility
0277 57 Evaluation of the Synthoil process, Volume II, Status of Development
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives
0279 125 Economics of gasoline from underground coal gasification
0281 265 Liquefaction technology assessment - Phase 1: Indirect liquefaction of coal to methanol and gasoline using available technology
0281 329 Technical and economic evaluation of selected coal liquefaction processes. Phase 0. Preliminary screening evaluations

0580 128 Costs and technical characteristics of environmental control processes for low-Btu coal gasification plants

SALOOJA, AP
0680 216 A prediction method for coal-fired furnaces

SALOTTI, CA
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SALTSMAN, RD
0475 9 First Symposium on Underground Mining, Volume I
0480 156 Survey of coal industry programs for utilization of methane from coal seams. Final report

SALUJA, SS
0479 152 Bord & pillar mining with hydraulic sandstowing: an improved plan

SALVADOR, LA
0177 86 Development of the Westinghouse coal gasification process - A status report
0177 196 Instrumentation development and application at the Westinghouse coal gasification PDU
0178 76 Process development for the Westinghouse advanced fluidized-bed coal gasification system
0178 338 Advanced coal gasification technology
0179 351 Applications of coal gasification technology
0180 307 The Westinghouse coal gasification process
0576 12 Operation of the Westinghouse coal gasification PDU

SALVIANI, J
0678 154 Evaluation of a pressurized fluidized-bed combustion (PFBC) combined-cycle power-plant conceptual design. Final report. Volume II. Commercial-plant design description and economic analysis, Subtask 1.2

SALZANO, FJ
0173 26 Analysis of hydrogen energy systems report to subgroup on synthetic-fuels, Office of Science and Technology

SAMA, JK
0277 18 Kinetics and Mechanism of Hydrogenation of Coal
0280 244 Middle distillates by catalytic hydrogenation
1079 61 Mechanistic study of hydrogenation of coal. 2.
1079 62 Mechanistic study of hydrogenation of coal. 1.

SAMANS, CH
0177 71 Current progress in materials development for coal conversion

SAMMONS, D
0682 24 Prospects rise and fall in COM market

SAMOILIK, GV
1079 170 Sludge formation as a function of coal rank

SAMOILOV, VS
1079 192 Comparative investigations of synthetic and natural graphites

SAMPLE, DG
0280 269 The tagging of an H-coal PDU run
0281 76 Preliminary characterization of catalysts tested in the H-coal bench unit
0281 142 The application of radiation techniques to coal liquefaction
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

SAMPLES, RE
0480 37 Hydraulic transportation of coarse coal the Loveridge mine

SAMS, TL
0280 61 Effect of chloroform - solubles in coal conversion in nonhydrogen-donating solvents
0281 45 Facile internal hydrogen rearrangement in coals
0281 63 Internal rearrangement of hydrogen during heating of coals with phenol

SAMSONOVA, LS
1080 183 Features of the conditions for the formation of a carbonaceous material with a furnan binder

SAMUEL, C
0578 26 Probabilistic methodology for estimating air pollution health effects from coal-fired power plants

SAMUEL, P
0280 244 Middle distillates by catalytic hydrogenation
0281 281 Catalytic liquefaction of coal

SAMUEL, EA
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SAMUEL, WA
0177 153 Application of coal gasification for the production of iron-ore pellets
0180 78 Coal Technology '80
0282 81 Coal to oil and gas Sasol one, two and three

SAMUELS, E
0173 47 Catalyzed hydrogasification of coal-chars

SAMUELS, GA
0181 199 Environmental implications of small fixed-bed gasifiers for industry

SAMUELSEN, GS
0681 48 The thermal decomposition of pulverized coal particles
0681 148 Observation of the behavior of coal particles during thermal decomposition

SANADA, Y
0182 16 Effect of SO//4**2- on catalytic activity of Fe//2O//3 for hydrocracking of coal
0279 175 Temperature dependence of NMR absorption in coal and pitch
0280 40 Qualitative and quantitative assessment of reaction models of coal hydrogenation
0280 207 Analysis of a coal-derived liquid using high-pressure liquid chromatography and pressure liquid chromatography and synchronous fluorescence spectrometry
0281 85 Combination of Carbon-13 and Proton-NMR spectroscopy for structural analysis of neutral, acidic and basic heteroatom compounds in products from coal hydrogenation
0282 11 Assessment of the activities of catalysts for the hydrocracking of coal by means of hydrogen evolution
0282 22 Superacid-catalyzed coal solubilization with olefin under relatively mild conditions
0282 25 Chemical structure of coal-derived oil. Structural changes of each compound type with severity of hydrogenation
1068 2 The reactions of discharge-generated hydrogen species with coals and carbons 1 - Primary reaction products and kinetics
1078 2 Polymeric character, micellar structure and compatibility of coal
1078 61 Aromaticity of coal extract by 1H and 13C pulsed n.m.r. methods
1078 68 Nuclear-magnetic-relaxation studies of coal
1079 50 High temperature proton NMR study of coal and pitch at the early stages of carbonization
1079 58 Spin-diffusion effects in spin-lattice relaxation in coals
1081 60 Copolymerization of methylmethacrylate on a ball-milled surface of coal at 77 K
1081 87 High-temperature Proton NMR study of oxidized coal
1081 108 Nuclear magnetic proton relaxation studies of oxidized coals

1081 164 Temperature dependence of hydrogen-1 NMR absorption in coal and pitch

SANADA, Y
1079 58 Spin-diffusion effects in spin-lattice relaxation in coals

SANCHEZ, MM
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SANCIER, KM
0177 149 Sulfur poisoning of catalysts: A study of activity decay in methanol synthesis and Fischer-Tropsch catalysis
0178 133 Carburization studies of iron Fischer-Tropsch catalysts

SAND, LB
0379 132 Desulfurization of coal in buffered solutions

SANDER, G
0478 64 Transport systems in underground mining

SANDER, WJ
1180 5 A review of research and development on coal conversion in the Republic of South-Africa

SANDERS, D
0477 123 Optimizing a bore core evaluation test program

SANDERS, FS
0578 15 Coal conversion and aquatic environments: Overview of impacts and strategies for monitoring

SANDERS, RN
1177 29 The 29th Canadian conference on coal

SANDERS, SA
0477 92 Fifth Symposium on Surface-mining and reclamation

SANDERS, WJ
0681 189 Coal Technology '81, Vol. 5

SANDHU, A
0882 13 Coal slurry dewatering operations wastewater treatability studies

SANDHU, AS
0881 47 Coal Technology '81, Vol. 1

SANDLER, SI
0380 21 A corresponding states equation for saturated liquid densities. II. Applications to the calculation of swelling factors of carbon dioxide crude oil sytems

SANDOVAL, FM
0476 21 Fourth Symposium on surface-mining and reclamation
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute
0677 56 Technology and use of lignite
1076 30 Effect of sampling method on the results of chemical analysis of overburden samples

SANDS, PF
0477 95 Third Symposium on Underground Mining

SANDSTROM, DR
0281 356 Chemistry of trace element species in coal liquefaction processes

0282 10 Study of Ti in solvent-refined coal by x-ray absorption spectroscopy

SANDSTROM, WA
0177 90 Coal processing technology, Volume 3
0180 242 Historical development of the U-Gas process at the IGT pilot plant
0678 33 Low-Btu-gas from the IGT ash-agglomeration gasification process
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

SANDU, AS
0882 15 Water quality simulation for the design of the ETSI wastewater treatment facilities

SANGUANRUANG, SS
0877 3 Water Quality aspects of coal transportation by slurry pipeline

SANIEE, F
0381 112 Coal fines recovery and utilization

SANKUR, VD
0280 303 A model for the isothermal plastometric behavior of coals
0281 66 Microautoclave study of liquefaction reactivities of a coal and of an extruded coal

SANNER, WS
1080 120 Evaluation of an optical microscope method for coal-pyrite/marcasite differentiation

SANSONE, MJ
0181 61 Alternative process schemes for coal conversion

SANSONE, SM
0680 226 Cofiring coal and refuse-derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation

SANTHANAM, CJ
0579 51 Health and environmental impacts of increased generation of coal ash and flue gas desulfurization sludges
0882 5 Development of coal/liquid CO//2 slurry transportation - current status

SANTINI, R
0682 10 Determination of the stability of coal-oil mixtures (COM) by infrared analysis

SANTINI, DJ
0179 346 The economic and social costs of coal gasification versus coal electricity for providing space heat to the central U.S.

SANTOLIQUIDO, PM
1073 12 Trace-elements in coal by neutron activation analysis with radiochemical separations

SANTOPIETRO, M
0180 78 Coal Technology '80

SANTOR, S
0178 324 Results of a groundwater quality study near an underground coal gasification experiment (Hoe-Creek I)

SANTORE, RR
0177 113 Coal pressurization and feeding - Use of a lock hopper system

SANTORO, GJ
0280 277 Deposition and material response from Mach 0.3 Burner Rig Combustion of SRC-II Fuels
0281 109 The effects of trace impurities in coal-derived liquid fuels on deposition and accelerated high temperature

corrosion of cast superalloys

SANTORO, RD
0781 5 Hyrogeologic evaluation of the Hanna coal gasification site

SANTY, MJ
0376 3 Second Symposium on Coal Preparation
0377 20 Pilot plant design for chemical desulfurization of coal
0377 48 Coal desulfurization test plant status - July 1977
0379 54 Coal desulfurization
0576 23 Review and status of the TRW/Meyers process
0579 56 Coal desulfurization by the Gravichem process.

SANYAL, A
0681 79 Slagging in boiler furnaces: an assessment technique based on thermal behaviour of coal minerals
0681 101 A laboratory study of the thermal behaviour of coal minerals

SANYAL, P
1081 21 Hydrogenolysis and the isolation of structural units of coal

SANYAL, SP
1078 118 Markov chain analysis of a coal seam

SANZENBACHER, CW
0380 74 Method for producing molten iron by submerged combustion

SAPIENZA, R
0181 61 Alternative process schemes for coal conversion

SAPIENZA, RS
0180 78 Coal Technology '80

SAPKO, MJ
0482 106 Testing of fire-resistant conveyor belting

SAPOROSCHENKO, M
0179 242 Mossbauer studies of iron in Lurgi gasification ashes and power plant fly and bottom ash
0279 47 Calibration standard for X-ray-diffraction analyses of coal liquefaction residues: Moessbauer spectra of synthetic pyrrhotite
1078 0 Moessbauer-spectroscopic investigation of iron species in coal
1080 31 Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal-conversion processes
1080 133 Moessbauer studies of illites and heat-treated illite as related to coal-conversion processes

SAPP, CD
0478 159 Remote sensing of strippable coal reserves and mine inventory in part of the Warrior coal field in Alabama

SAPUNOV, VA
1079 228 Polarographic analysis of mellitic and pyromellitic acids and their mixtures
1080 111 The dielectric properties of the hard coals of the Donbass in the SHF region

SARAF, DN
1079 166 Ion-exchanged zeolite X catalysts in residuum hydrocracking

SARANCHUK, VI
0381 67 Change in the properties of coals during their preparation for grinding
0479 176 Oxidative chemiluminescence of waste pit rock

0581 41 Composition of the substances washed out from mining rock dumps by water
0679 160 A study of coals of the Donbass with and without a tendency to spontaneous ignition
0680 218 The dependence on their genesis of the tendency of Donbass coals to undergo spontaneous combustion
0681 167 A study of the factors responsible for the evolution of gas from burning waste rock dumps of coal pits and enrichment factories
1078 107 Influence of water on the low-temperature oxidation of coal
1081 186 A study of the kinetics of the low-temperature oxidation of Donbass coals tending and not tending to undergo spontaneous combustion

SARAPUU, E
0152 0 The process of underground electrocarbonization
0154 0 Underground electrocarbonization of coal and related hydrocarbons
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SARDA, JP
0182 81 Major problems, first results and projects of underground gasification of deep coal in France

SAREEN, SS
0377 50 Sulfur removal from coals: Ammonia/oxygen system

SARGENT, A
0876 0 Western-coal transportation: Unit-trains or slurry pipelines?

SARGENT, G
0280 69 Materials testing for H-coal pilot-plant
0280 80 Hydrogen attack
0280 83 Erosion of materials in coal liquid streams
0280 84 Erosion of materials in coal conversion plants
0280 85 Erosion of weldments
0280 98 The mechanism of sulfur poisoning of nickle methanation catalysts
0680 75 Materials testing for AFBC

SARGENT, GA
0177 232 Surface structure and mechanisms of gasification catalyst deactivation. Annual report, February 1976 - January 1977
0178 221 Surface structure and mechanisms of gasification catalyst deactivation, Annual Report, Feb. 1977 - Jan. 1978
0380 44 Adsorption of CO on and S poisoning of, a perfect Ni(111) single crystal and a Ni(111) crystal with small angle boundaries
0880 40 Mechanical devices for handling coal in freezing weather

SARKAR, A
0180 78 Coal Technology '80

SARKAR, B
0480 207 Indian coalmine water and corrosion problem

SARKAR, S
0277 16 Production of solvent refined coal
1080 124 Effect of weathering on caking and coking properties of coal

SARKAR, DK
1078 137 A nomogram for scientific and commercial evaluation of coal

SARKAR, GG
0379 129 Improved process for demineralisation of coal by oil agglomerisation technique
0380 68 A process for the demineralisation of coals

SARKAR, MK
0278 144 Extraction of assam coal through formylation

SARKAR, SK
0479 169 Investigation into strata control failures at caved longwall faces in India and a new approach for support planning to avoid such occurences

SARKES, LA
0178 39 Unconventional gas supply options

SARMA, NL
1079 154 Lignite substituted phenolic cation exchangers

SAROFF, L
0177 90 Coal processing technology, Volume 3
0178 110 Oxidative pretreatment of Illinois No. 6 coal: Material and energy balances
0181 9 Use of fundamental concepts in catalyst aging to increase catalyst utilization during coal liquefaction, steam reforming, and other carbon-forming reactions
0281 202 Thermal dispersion and heat transfer in nonisothermal bubble columns

SAROFIM, AF
0179 280 Kinetics of char burnout and ash vaporization in coal-fired MHD combustors
0581 33 Reduction of nitric oxide by coal char at temperatures of 1250-1750 k
0581 36 NO formation and reduction in fluidized bed combustion of coal
0676 8 The fluidized bed combustor modeling
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0677 198 System model and data base system for fluidized-bed combustion
0678 124 Mathematical model for predicting efficiency of fluidized-bed steam generators
0680 178 Laboratory studies of mineral matter vaporization during coal combustion
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 28 NO/char reactions at pulverized coal flame conditions
0681 49 Vaporization and condensation of mineral matter during pulverized coal combustion

SAROJ, K
1077 56 Microbial desulfurization of pyritic coal

SASHIHARA, TF
0179 92 Low and medium-BTU gasification - A chemical industry perspective

SASI, K
0178 283 Fluidization characteristics of coal-air bed after slug break-up

SASKKI, H
1079 120 Activity tests of various catalysts for hydrocracking of coals by means of high pressure differential thermal analysis

SASS, A
0174 12 Coal processing technology
0274 12 Garrett's coal pyrolysis process

SASSER, R
0280 80 Hydrogen attack

SASSIN, W
1177 43 Medium-term aspects of a coal revival: Two case studies, Report of the IIASA Coal Task Force

SASTRE, H
1082 4 Influence of coagulants and flocculants on contact angles of coal surfaces

SASTRI, VS
0879 26 Review of the effects of corrosion inhibitors in coal-water slurry pipelines
0880 31 Effect of pipeline corrosion inhibitors on the caking poperties of metallurgical coals
0882 18 Studies on molybdate as pipeline corrosion inhibitor in coal water slurries

SASTRY, KV
0380 39 Oil agglomeration offers technical and economical advantages

SATHYANARAYANA, K
0679 169 Gaseous electrode development - final report

SATO, A
0181 169 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low sulfur char by flash carbonization of coal.
0182 51 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low-sulfur char by flash carbonization of coal

SATO, H
0278 12 Dissolution reaction of coal by hydrogen-donating aromatic solvents - 2. The effect of phenolic-compounds
0278 168 Effect of phenolic compounds on liquefaction of coal in the presence of hydrogen-donor solvent

SATO, S
0180 23 Research and development of fluidized-bed coalgasification for power generation in Japan
0279 150 Effect of hydrogen pressure on rate of direct coal liquefaction
0280 236 Kinetics of direct liquefaction of coal in the presence of Mo-Fe catalyst

SATO, Y
0279 46 Nonsolvent coal hydrogenation at short contact time
0281 115 Catalytic effect of metallic halide on non-solvent coal hydrogenation at short contact time
0282 184 Liquefaction of blended coal
0680 186 Digital control system for coal-fired power plants

SATTERFIELD, CN
0281 127 Effect of Carbon formation on liquid viscosity and performance of Fischer-Tropsch bubble-column reactors
0281 201 Carbon number distribution of Fischer-Tropsch products formed on an iron catalyst in a slurry reactor
0282 131 Product distribution from iron catalysts in Fischer-Tropsch slurry reactors

SAUER, AR
0677 110 The influence of heavy metals lead and zinc on corrosion and deposits in refuse fired steam generators

SAUERMANN, HB
0882 42 Hydraulic transport of coarse solids in circular and segmented pipes

SAULNIER, GJ
0582 9 Use of mathematical models to predict impacts of mining energy minerals on the hydrologic system in Northwestern Colorado

SAUNDERS, FN
0479 119 Fire retardance tests for materials used underground

SAUNDERS, JO
0478 75 Economic Impact and linkages of the Canadian Mining Industry

SAUNDERS, KG
1080 174 Microstructural studies of chlorine in some British coals

SAUR, A
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

SAUTTER, CA
0278 118 Solvent-refined-coal (SRC) process: Trace-elements, Research & development report No. 53, Interim report No. 26, Volume III: Pilot-plant development work, Part 6: The fate of trace-elements in the SRC process

SAVAGE, P
0480 137 Record hydraulic excavator tested
0580 79 NCB refines waste dumping

SAVAGE, KI
0680 68 Measuring combustion inefficiency based on the solid effluents from a combustor burning coal with limestone

SAVAGE, RL
0181 169 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low sulfur char by flash carbonization of coal.
0182 51 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low-sulfur char by flash carbonization of coal

SAVANICK, GA
0775 3 Cutting experiments using a rotating water jet in a borehole

SAVCHUK, SV
0679 131 Substance composition and optical properties of the products of the thermal degradation of low-rank coals of the Donets basin
1078 144 The substance-petrographic composition of the products of the enrichment of coals, and the distribution of sulfur

SAVEL'EV, LN
1079 180 An investigation of the sorption of water vapor by carbonaceous adsorbents

SAVENKO, GG
0379 119 Selecting blends of run-of-mine coals by linear programming

SAVENKO, LV
0177 190 Interaction of water introduced into a coal bed with methane

SAVILLE, DA
0179 215 Model for short residence time hydropyrolysis of single coal particles
0181 220 Short-residence-time hydopyrolysis of coal - Technical Progress Report for the periods, 1 October - 31 December, 1980, 1 January - 31 March, 1981

SAVINELL, RF
0176 128 Results and analysis of three experiments in a bench-scale tube-wall methanation reactor
0281 72 Simulation of flow through the preheater of a coal liquefaction reactor

SAVINS, JG
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SAVITZ, M
1179 33 National Energy Plan - success hinges on cooperation

SAVROV, SD

0677 225 Papers from U.S.S.R. publications. Part 1. 1977

SAWABE, H
0178 169 Gasification of coals treated with nonaqueous solvents. 3. Swelling behaviour of a single coal particle

SAWARKAR, SK
0178 283 Fluidization characteristics of coal-air bed after slug break-up

SAWARYINSKI, TJ
0478 274 Steep slope mining and the surface mining control and reclamation act of 1977

SAWATZKY, H
0278 226 Chemical changes in nitrogenous materials during hydrocracking of Athabasca bitumen

SAWRUK, S
0280 302 Catalyst assessment for upgrading short contact time SRC to low sulfur boiler fuels

SAWYER, EW
1081 115 Coal suspension in organic liquids

SAWYER, RF
0677 249 Combustion of coal in an opposed flow diffusion burner
0678 63 Radiation from a methanol furnace

SAWYER, SG
0376 3 Second Symposium on Coal Preparation
0475 10 First Symposium on Underground Mining, Volume II
0476 23 Second Symposium on Underground Mining

SAWYER, WK
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SAXBY, JD
0680 33 Atomic hydrogen/carbon ratios and the generation of oil from coals and kerogens

SAXENA, SC
0177 31 Multiple nonisothermal noncatalytic gas - solid reactions. Effect of changing particle size
0178 248 Dust removal from hot and compressed-gas streams by fibrous and granular-bed filters: a state-of-the-art review
0180 3 Agglomeration of ash in fluidized-bed gasification of coal by steam-oxygen (or air)mixture
0677 11 Mathematical modelling of coal combustion in fluidized beds with sulfur emission control by limestone or dolomite.
0677 202 Fluidized-bed modeling studies at University of Illinois at Chicago Circle
0678 93 A slug flow model for coal combustion and desulfurization in fluidized-beds: theoretical formulation
0678 127 A mechanistic model applicable to coal combustion in fluidized-beds
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0680 211 Heat transfer between a horizontal tube and a gas-solid fluidized bed
0681 4 Maximum heat transfer coefficient between a horizontal tube and a gas-solid fluidized bed

SAXTON, H
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

SAXTON, AL
0180 109 Fluid coking and gasification process

SAYLER, GS
0581 15 Methanogenesis in freshwater sediments: inherent variability and effects of environmental contaminants

SAYLES, CP
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

SAZENA, SC
0677 69 Slug flow model for coal combusti n with sulfur emission control by limestone or dolomite

SAZONOV, AE
0477 155 Engineering method for calculating the resistance of mechanized standing supports

SCAFE, D
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III

SCANLON, JC
0181 181 The interrelationship of graphite intercalation compounds, ions of aromatic hydrocarbons, and coal conversion. II

SCANNELL, EP
0679 169 Gaseous electrode development - final report

SCARBROUGH, BA
0677 185 Georgetown University atmospheric fluidized-bed presentation

SCARLETT, B
0676 31 Fluidization technology, volume 1

SCARLETT, JC
0180 27 Direct reduction of iron and production of fuel gas using gas from coal
0180 110 Method for the direction reduction of iron using gas from coal
0380 74 Method for producing molten iron by submerged combustion

SCARONI, AW
0179 320 Isothermal furnace studies of the kinetics of lignite pyrolysis
0179 333 Kinetics of lignite pyrolysis in fixed bed and entrained flow reactors
1078 185 A re-evaluation of carbon ring structure in coal
1081 23 Effect of surfaces on the yield of volatiles from coal

SCARRAH, WP
0279 17 Direct coversion of lignite to chemical feedstocks via a combination of molten salt catalysis and solvent-refining technologies
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

SCELZA, ST
0182 8 Gas evolution during rapid, low-temperature pyrolysis of a North-Dakota lignite

SCHABAS, W
0478 257 Offshore drill results lead to yet another expansion at Devco

SCHABRON, JF
0279 42 Chromatographic and spectrometric methods for the separation, characterization, and identification of alkylphenols in c coal-derived solvents
0281 44 Estimation of alkylphenol content in coal recycle solvents

SCHAD, JA
0476 22 Sixth Symposium on Coal Mine Drainage Research

SCHAEF, HJ
0478 285 Processes and conditions of cohesionless loose rock deformations in brown-coal mining due to seepage flow

SCHAEFER, H
1081 224 Coke production process

SCHAEFER, J
1077 5 Prospects for carbon-13 nuclear-magnetic-resonance analysis of solid fossil-fuel materials

SCHAEFER, AO
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0178 322 A program to discover material suitable for service under hostile conditions obtaining in equipment for the gasification of coal and other solid fuels, Annual Progress Report, Jan. - Dec. 1977
0179 46 A program to discover materials suitable for service under hostile conditions obtaining in equipment for the gasification of coal and other solid fuels. Annual progress report for the period January 1978 to December 1978
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SCHAEFER, CB
0177 275 Coal conversion: Practical and legal implications

SCHAEFER, RG
0780 13 Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence

SCHAEFFER, SC
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

SCHAFER, H
0479 154 Planning and development of mines -- illustrated with examples from coal mines to the Saabergwerke AG

SCHAFER, HN
0680 31 Pyrolysis of brown coals. 3. Effect of cation content on the gaseous products containing oxygen from Yallourn coal
0680 32 Pyrolysis of brown-coals. 4. Relation between acidic groups and evolved carbon-oxides.
0680 35 Flash pyrolysis of coals: Influence of cations on the devolatilization behavior of brown-coals

SCHAFERS, CJ
0781 8 Experimental uses of short pulse radar in coal seams

SCHAFFER, AM
0280 197 Surface studies of the interaction of nickel and antimony on cracking catalysts

SCHAFFER, RB
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

SCHALLER, S
0481 149 Rock mechanics design criteria for longwall mining at Angus Place Colliery

SCHANNE, L
1081 36 Preparative gel permeation chromatography of coal-derived products

SCHANZ, JJ

1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

SCHARBOW, MD
0178 111 Ultrafiltration and hyperfiltration of phenolic compounds in coal gasification wastewater streams

SCHARFF, MF
0181 102 Dynamic computer simulations of entrained-flow and fluidized-bed coal gasifiers
0680 158 Simulation of cold flow in agglomerating reactors, JAYCOR Topical report No. 1

SCHARFF, RP
0280 67 Precoat filtration of coal liquid feasibility study of bottom ash precoat
0280 79 Solid-liquid separation-filtration with bottom ash precoat

SCHAUERTE, H
0181 88 The KGN fixed-bed gasifier and the planned gasworks riedelland

SCHAUS, OO
0179 146 Development of an industrial burner for using gases of low-calorific value

SCHBERT, HH
0178 272 Coal processing technology, Volume IV

SCHECK, RW
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SCHEFF, PA
1178 36 Alternative fuel utilization

SCHEFFEE, RS
0681 143 The development of coal-water slurries as a boiler fuel
0681 199 Preparation and burning of coal/water slurry
0878 44 Development of coatings for protection of coal during transport and storage. Final report for December 1977 - September 1978
0881 47 Coal Technology '81, Vol. 1

SCHEHL, RR
0177 299 Statistical analysis and linear programming model for Illinois No.6 coal gasification data from the synthane process
0177 301 Deacitvation of Raney nickel methanation catalyst
0178 272 Coal processing technology, Volume IV
0178 386 Fischer-tropsch studies in a bench-scale tube wall reactor using magnetite, raney iron, and taconite catalysts
0179 16 Operation of a tube wall methanation reactor

SCHEIBEL, EG
0281 350 Extraction of solvent-refined coal liquids

SCHEIBNER, BJ
0481 162 Mine waste disposal technology

SCHEIRER, S
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SCHELAT, TA
0180 78 Coal Technology '80

SCHELL, WJ
1076 22 Membrane applications to coal conversion processes, Final report, June 1975 - Sept. 1976

SCHEMMANN, P
0181 123 The Saarberg-Otto-Process: First results with a particular view on influences and effects of mineral components

SCHENCK, GHK
0378 31 Cost estimation for coal prep financing
0476 25 Historical trends in coal utilization and supply

SCHEPERS, R
0977 2 Is it possible to increase the resolution in seismic exploration for coal by using high frequency signals?

SCHEPPELE, SE
0280 299 Chemical composition of raw and upgraded anthracene oil and the chemistry of coal liquids upgrading
0281 237 Chemical composition of raw and upgraded anthracene oil and the chemistry of coal-liquids upgrading
1077 96 Mass spectrometric analytical services and research activities to support coal-liquid characterization research

SCHER, C
0180 176 FGD good with coal conversion

SCHER, RM
0878 13 Great-Lakes transport of western-coal: Economic and technical analysis

SCHERMERHORN, JG
0478 70 Stripping with scrapers and dozers

SCHERZER, J
0281 157 Zeolite-supported metal catalysts for Fischer-Tropsch reactions. 1. A new preparation method

SCHIELE, H
0381 17 Vibratory centrifuge for the dewatering of coal sludge

SCHIESSER, WE
0176 52 Dynamic simulation of coal conversion plants
0177 271 Development of a modular software system for the dynamic simulation of coal conversion plants. Annual report, June 1976 to June 1977
0179 277 Development of a modular software system for the dynamic simulation of coal conversion plants, final report
0180 254 Large scale dynamic process simulation experience: effect of Jacobian structure on integrator performance

SCHIFFER, AN
0181 219 Coal Technology '81, Vol. 4

SCHIFFERS, A
0682 45 Method of reducing sulfur emissions from brown coal-fired boilers by addition of calcium-based additive before combustion

SCHIFINO, J
1076 4 Determination of the ash content in coal samples from Charqueadas, Rio-Grande-Do-Sul, by backscattering of beta-particles

SCHILL, MG
0581 47 The dewatering of fine coal refuse with a continuous high performance belt filter press

SCHILLER, EA

1182 14 Coal in Canada

SCHILLER, JE
0278 6 Effect of solvent on molecular composition in coal liquefaction
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0677 56 Technology and use of lignite
1077 55 Temperature effects on coal liquefaction: Rates of depolymerization and product quality as determined by gel-permeation-chromatography
1078 127 Analysis of solvent-refined-coal, recycle solvents, and coal liquefaction products

SCHILLING, W
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SCHILLING, HD
0177 41 Prospects for coal gasification and coal liquefaction on the basis of outlook for bituminous coal
0178 89 Symposium on Coal Refining, Proceedings

SCHILLING, WF
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SCHILLING, H-D
1181 42 Technical and economic prospects of coal conversion and utilization from the viewpoint of German coal industry

SCHINDLER, H
0281 198 LC-Fining support activities for two-stage liquefaction

SCHINDLER, K
0677 26 Experience gained in the use of low-calorific-value raw-lignite for power generation in the GDR

SCHINDLER, HD
0181 219 Coal Technology '81, Vol. 4
0279 226 Developmental research program for clean industrial and transportation fuels from coal - Milestone Report on Process Variable Studies, July 1978-February 1979
0280 319 Advanced coal liquefaction processes emphasize low hydrogen consumption
0879 3 Developmental research program for clean industrial and transportation fuels from coal, milestone report on solvent self sufficiency with equilibrium solvent and catalyst life testing period August 1977 - July 1978

SCHIRMER, U
0680 121 Origins of the trace elements zinc, cadmium and vanadium in bituminous coal and their behavior during combustion/die herkunft der spurenelemente zink, cadmium und vanadium in steinkohl en und ihr verhalten bei der verbrennung

SCHIVELY, WW
0881 48 Coal Technology '81, Vol. 2

SCHIVLEY, WW
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

SCHLAFF, PS
0881 48 Coal Technology '81, Vol. 2

SCHLEBUSCH, L
0381 17 Vibratory centrifuge for the dewatering of coal sludge

SCHLEICHER, P
0181 53 Kinetics of hydrogasificaton of coke catalyzed by Fe, Co and Ni

SCHLEICHER, JA
0580 36 Resources information data base
1073 7 Trace-elements in coal by optical-emission-spectroscopy

SCHLENZ, D
1079 90 Hydrogen-sulfide incorporation in coal precursors: Origins of organic-sulfur in coal

SCHLEPPY, R
0280 104 Dependence of coal liquefaction behaviour on coal characteristics. 5. Data from a continuous flow reactor
0280 122 Coal liquefaction process employing multiple recycle streams

SCHLESINGER, HA
0580 29 Flue-gas desulfurization sludge disposal practices for coal-fired steam and power-plants

SCHLESINGER, MD
1180 37 Past trends in synthetic fuels R & D

SCHLICK, S
0278 20 Matrix Electron Nuclear Double Resonance Studies of the proton environment of the radical in natural and Solvent-Refined Coal

SCHLICK, DP
0477 93 Third Institute on Coal Mine Health and Safety
0478 88 Mandatory safety and health training of miners, provisions in the New Federal Act and a review of German, British, and Polish programs
0482 80 Reducing accidents by going back to basics

SCHLIESSER, SP
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SCHLINGER, WG
0180 84 Coal gasification development and commercialization of the Texaco coal gasification process
0180 209 Coal gasification
0181 196 Commercialization of the Texaco coal gasification process
0278 45 Gasification of coal liquefaction residues
0280 124 Conversion of solid fuels into fluid fuels

SCHLOSBERG, RH
0176 29 Method for improving gasification process rates and yields by means of electrophilic aromatic substitution pretreatment of coal
0179 141 Coal science: Basic research opportunities
0275 21 Treatment of coal by alkylation or acylation to increase liquid products from coal liquefaction
0276 57 Alkylation or acylation of liquefaction product bottoms
0278 149 Attempted carbonylation of coal and coal-liquefaction bottoms
0279 73 Stability of adamantane and its derivatives to coal liquefaction conditions, and its implications toward the organic structure of coal
0280 1 Alkylation: A beneficial pretreatment for coal liquefaction
0281 75 Pyrolysis studies of organic oxygenates. 2. Benzyl phenyl ether pyrolysis under batch autoclave conditions
0281 143 Removal of phenols from phenol-containing streams
0281 306 Removal of phenols from phenol-containing streams
0281 360 Coal liquefaction process
0282 159 Liquefaction of carbonous material with vapour phase hydrogen donor solvents

1078 65 Effect of Friedel-Crafts alkylation on the caking properties of bituminous coal
1079 220 Magnetic resonance studies of labeled guest molecules in coal
1081 38 Pyrolysis of benzyl ether under hydrogen starvation conditions

SCHLOTTMANN, A
1179 37 Economic and environmental impact of back-to-contour reclamation legislation in Appalachia

SCHLYER, DJ
1079 60 Oxygen content of selected coals as determined by charged particle activation analysis
1081 183 A study of coal oxidation by charged-particle activation analysis

SCHMAL, M
0182 33 Kinetics of coal gasification

SCHMALL, RA
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

SCHMELING, WA
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
1078 124 Spontaneous combustion liability of sub-bituminous coals: Development of a simplified test method for field lab/mine applications

SCHMID, B
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SCHMID, BK
0173 12 Symposium papers, Clean fuels from coal
0174 12 Coal processing technology
0178 272 Coal processing technology, Volume IV
0180 78 Coal Technology '80
0274 4 The solvent-refined coal process
0277 29 The SRC-II Process
0278 36 SRC-II review of development and status
0278 175 Fuels from coal by SRC-II processing
0279 123 Liquid and solid fuels by recycle SRC
0279 234 Economic and market potential for SRC-II products
0280 122 Coal liquefaction process employing multiple recycle streams
0280 151 Economic and market potential for SRC-II products
0281 21 The SRC-II demonstration project

SCHMIDT, B
0282 116 Fischer-Tropsch synthesis in the slurry phase on Mn/Fe catalysts

SCHMIDT, J
0477 92 Fifth Symposium on Surface-mining and reclamation

SCHMIDT, M
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

SCHMIDT, P
0280 72 Viscosity measurement of residual oil from H-coal process

SCHMIDT, R
0177 272 The Ancit Process

SCHMIDT, BK

0281 70 On the relevance of mass transfer limitations in the Fischer-Tropsch slurry process

SCHMIDT, CE
0277 41 Screening for hazardous elements and compounds in process streams of the 1/2-ton-per-day Synthoil process development unit
0578 10 Analysis of volatile polar organics in untreated byproduct waters from coal conversion processes

SCHMIDT, HJ
0675 11 Annual report on the MHD high performance demonstration experiment, Nov. 1973 - April 1975
0677 223 Final report on the design of the MHD generator channel for the high performance demonstration experiment
0679 33 Report on the MHD performance demonstration experiment for the period October 1977 to September 1978

SCHMIDT, HW
0673 7 Combustion in a circulating fluid-bed

SCHMIDT, PS
0177 85 Performance of gas-turbines and combined-cycles operating on fuels produced by in-situ gasification of lignite

SCHMIDT, PW
1081 179 Small-angle x-ray investigation of the porosity in coals

SCHMIDT, RA
0976 0 Coal Exploration
1177 48 Coal: keystone of energy fuels

SCHMIDT, RL
0476 14 Reduced generation of airborne respirable dust through deep-cutting continuous miners
0477 22 Study says deep cutting reduces respirable dust.
0477 95 Third Symposium on Underground Mining
0478 47 Effect of continuous miner parameters on the generation of respirable dust

SCHMIDT, WB
0475 9 First Symposium on Underground Mining, Volume I
0481 101 The longwall automation research project of the US Department of Energy

SCHMIDT, H-W
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SCHMIDT-COLLERUS, JJ
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
1078 124 Spontaneous combustion liability of sub-bituminous coals: Development of a simplified test method for field lab/mine applications

SCHMIDT-TRAUB, H
0180 245 Entrained-bed gasification - Present state and development trends

SCHMITT, RW
1177 11 An econometric analysis of energy over the next 75 years

SCHMITZ, H
0478 179 Raising social working capacity through decrease in sickness and accidents

SCHMITZ, RH
0180 78 Coal Technology '80

SCHNAKENBERG, GH

0476 23 Second Symposium on Underground Mining

SCHNEIDER, A
0277 130 Research and development of an advanced process for the conversion of coal to synthetic-gasoline and other distillate fuels
0281 350 Extraction of solvent-refined coal liquids

SCHNEIDER, K
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SCHNEIDER, GB
0779 44 Geology, coal resources, and chemical analyses of coal from the Fruitland Formation, Kimbeto EMRIA study site, San-Juan County, New-Mexico

SCHNEIDER, LC
0280 295 Synthesis gas conversion to gasoline range hydrocarbons over medium pore zeolite catalysts containing 3d-metals and bimetallics

SCHNEIDER, RL
0280 196 Studies of tricobalt enneacarbonyl clusters on oxide supports

SCHNEIDER, SJ
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0679 170 Development, testing and evaluation of MHD materials and component designs, final report

SCHNEIDER, WD
1078 24 Characterization of coal-ash with x-ray photoelectron-spectroscopy (ESCA)

SCHNEIDERMAN, SS
0381 112 Coal fines recovery and utilization

SCHNEYER, GP
0177 248 Computer modeling of coal gasification reactors. Year 2. Annual report. June 1976 - June 1977

SCHOBERT, HH
0178 35 Sampling, analysis and characterization of effluents from the Grand-Forks Energy Research Center's slagging fixed-bed gasifier
0178 154 Carbonization reactions in the Grand-Forks fixed-bed slagging gasifier
0179 316 Effects of coal structure and processing conditions on organic effluents from slagging fixed-bed gasification
0179 330 Current research on the inorganic constituents in North Dakota lignites and some effects on utilization
0180 236 Effect of operating conditions on production of light hydrocarbon gases in slagging fixed-bed coal gasification
0181 83 Mass spectroscopic characterization of tars from the gasification of low-rank coals
0181 223 Technology and use of lignite, Vol. 1 and 2
0578 112 Evaluation of methods for determination of sulfide in slagging fixed-bed coal gasification wastewater
0677 56 Technology and use of lignite
0681 86 The petrochemistry of coal ash slags. Part 3. Behaviour of the rosebud slag-limestone system
1080 169 Organic structural studies of lignite coal tars

SCHOCK, MR
0579 111 The long-term effects of trace elements emitted by energy conversion of lignite coal - Vol. 1

0579 112 The long-term effects of trace elements emitted by energy conversion of lignite coal, Vol. II, Technical Appendices

SCHOEMANN, FH
0174 12 Coal processing technology
0275 24 Char oil energy development, Volume 1, Final report for the period Aug. 1971 - June 1975
0275 28 Char oil energy development, Volume 11 - Appendix B, computer program documentation, final report for the period August 18, 1971 through June 30, 1975

SCHOENE, TW
1177 17 The gas turbine HTGR plant with a binary cycle

SCHOENING, FR
1082 53 X-ray structural parameter for coal

SCHOENWETTER, HD
0678 67 Conversion to coal of gas/oil-fired boilers

SCHOFIELD, AN
1081 18 Centrifuge modeling of coal waste embankments

SCHOLES, WA
0982 0 New Zealand report

SCHOLL, DG
0580 131 Establishing cool-season grasses on mine spoils

SCHOLZ, A
1079 134 Correlation between the content of volatile matter and mineral matter in hard coals

SCHOLZ, W
0179 170 Survey of the SASOL II Oil from Coal complex and integration of gas-purification and separation from plants

SCHONEWALD, R
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SCHOOLEY, JF
0177 205 State of the art of instrumentation for high temperature thermometry

SCHOPF, JM
0776 7 Further suggestions about coal description in the field

SCHOPPERT, RC
0881 47 Coal Technology '81, Vol. 1

SCHORA, FC
0167 0 Coal pretreatment and gasification
0172 5 Analysis of a Hygas Coal Gasification plant design
0173 12 Symposium papers, Clean fuels from coal
0174 22 Clean energy from coal
0177 57 The Status of coal gasification, 1977
0180 108 Method for feeding caking coal particles to a gasifier
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0281 147 Overview of coal conversion to gases and liquids

SCHORNHORST, JR

0679 170 Development, testing and evaluation of MHD materials and component designs, final report

SCHORR, JR
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 8 Final report on study of heat-transfer through refractory lined gasifier vessel walls
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SCHOWALTER, KA
0174 12 Coal processing technology
0279 232 Solid SRC - a building block
0281 141 Solid solvent refined coal - a building block

SCHOWENGERDT, FD
0476 29 Second Institute on Coal Mine Health and Safety
0477 93 Third Institute on Coal Mine Health and Safety

SCHRADER, L
0181 223 Technology and use of lignite, Vol. 1 and 2

SCHRADER, RH
0579 26 Effects of weathered coal on coking properties and coke quality

SCHRAM, CW
0978 1 In-situ analysis of coal using a 252Cf-Ge(Li) Borehole-Sonde

SCHRECKENBERG, H
0178 89 Symposium on Coal Refining, Proceedings

SCHREEG, TM
0579 100 Utilization of legumes in the revegetation of environmentally stressed arid mine spoils

SCHREIBER, CH
0178 212 Effect of carbon-monoxide on the reaction of hydrogen-sulfide and calcium-oxide

SCHREINER, F
0680 232 Coal-fired open-cycle liquid-metal magnetohydrodynamic topping cycle for retrofit of steam power plants

SCHREINER, M
0278 85 Economic screening evaluation of upgrading coal liquids to turbine fuels
0278 161 Research guidance studies to assess gasoline from coal by methanol-to-gasoline and Sasol-type Fischer-Tropsch technologies

SCHREINER, WC
0172 9 Single Vessel Operation
0173 12 Symposium papers, Clean fuels from coal
0174 12 Coal processing technology

SCHREYER, MP
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

SCHRIDER, LA
0173 9 Preliminary results released for Wyoming in-situ gasification test
0173 14 Underground gasification of coal

0175 79 The outlook for underground coal gasification
0176 47 In-situ coal gasification - A unique means of energy recovery
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0180 260 A successful eastern in situ coal gasification field trail
0181 68 Eastern in situ coal gasification field trial

SCHRIESHEIM, A
0181 70 The chemistry and technology of synthetic fuels
0278 50 Industrial Friedel-Crafts chemistry - past and future

SCHROCK, R
0280 266 Preparation and characterization of active niobium, tantalum and tungsten metathesis catalysts

SCHRODT, JT
0182 52 Reaction of sulfides in fuel gases with the iron oxide in coal ashes. Fixed-bed experiments and simulations
0278 10 Deactivation of hydrodesulfurization catalysts under coal liquids. 1. Loss of hydrogenation activity due to carbonaceous deposits
1079 82 Diffusion and adsorption in microporous solids: Measurement of effective diffusivities in coal

SCHROEDER, P
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

SCHROEDER, CH
0681 108 Flexibility of scale in large conventional coal-fired power plants

SCHROEDER, EW
0479 12 Analysis of the economic feasibility of the Kloswall Longwall Mining System. Final technical report, Volume 1. December 1978

SCHROEDER, KT
0281 271 Coal mineral matter catalysis in liquefaction

SCHRONK, LR
1081 159 Reversed-phase HPLC retention behavior of coal-related nitrogen heterocyclic compounds

SCHRYER, DR
0580 0 Environmental and climatic impact of coal utilization

SCHUBERT, JP
0480 160 Environmental control technology survey of selected U.S. strip mining sites Volume 2B: Alabama
0581 72 Groundwater pollution resulting from disposal of pyritic coal wastes

SCHUERMANN, F
0480 155 The development of face-end technology in the West-German coal mining industry

SCHUFF, RW
0180 117 Method for removing particulate matter from a gas stream and a method for producing a product using the removed particulate matter

SCHUGERL, K
0676 31 Fluidization technology, volume 1

SCHUHMACHER, KD
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland

SCHUHMANN, R
0176 83 Apparatus and method for the gasification of solid carbonaceous material
0178 385 Sulfur fixation during coal gasification

SCHULLER, RM
0580 182 Chemical and biological characterization of leachates from coal solid wastes
0681 38 Coal fly ash: a review of the literature and proposed classification system with emphasis on environmental impacts

SCHULLER, WA
0476 21 Fourth Symposium on surface-mining and reclamation

SCHULMAN, BL
0680 101 Method and apparatus for retorting a substance containing organic matter

SCHULTEN, R
0177 23 Trends in coal gasification techniques and hydrogenation

SCHULTEN, HR
1082 62 Pyrolysis-field desorption mass spectrometry of coal

SCHULTIES, CW
0476 23 Second Symposium on Underground Mining
0479 23 Conventional mining reappraised

SCHULTZ, C
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

SCHULTZ, D
0476 21 Fourth Symposium on surface-mining and reclamation

SCHULTZ, H
0179 311 Trace element distributions in coal gasification products
0276 93 Method for the determination of benzene insolubles, asphaltenes, and oils in coal-derived liquids
0278 26 Comparison of methods for determining asphaltenes in coal-derived liquid-fuels.
0280 287 Comparison of methods for the determination of asphaltenes, oils and insolubles: part I - a coal-derived liquid
0280 298 Comparison of methods for the determination of asphaltenes, oils and insolubles - Part II
0280 349 Catalysts and relations of selectivity for the Fischer-Tropsch-Synthesis - Final Report
1073 15 The fate of some trace-elements during coal pretreatment and combustion
1079 94 Solid and gaseous fuels
1081 137 Solid and gaseous fuels

SCHULTZ, JE
0477 48 Colorado coal analyses, 1975 (Analyses of 64 samples collected in 1975)

SCHULTZ, JT
0479 241 A ground control study at Vanguard No. 2 mine, Hanna, Wyoming

SCHULTZ, KF
1081 44 E.s.r. measurements on asphaltene and resin fractions from various separation methods

SCHULTZ, RV
1080 193 The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979

SCHULTZ, TJ
0178 184 Improved methanation system for use in coal gasification, Final report

SCHULZ, H
0179 190 Trends in research and development of coal conversion to liquid fuels and basic chemicals in Europe
0275 11 The production of liquid-fuels from coal in Europe and Africa
0281 341 Selectivity of the Fischer-Tropsch CO-hydrogenation

SCHULZ, R
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

SCHULZ, CA
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0278 152 Design and construction of the PDU for zinc-halide hydrocracking of coal. Final Report for Task 4 and 5

SCHULZ, HW
0178 272 Coal processing technology, Volume IV

SCHULZ, JG
0681 103 Uniform coal suspensions and process for preparing same
1076 23 Conversion of carbonaceous material
1080 90 Nitro-substituted polyaromatic polycarboxylic acid compositions and processes for their preparation from coal based materials
1080 91 Mixture of polycyclic aromatic polycarboxylic anhydrides carrying nuclear nitro groups, and their preparation

SCHULZ, KF
1070 0 Some spectral observation on coking lignites

SCHUMAN, MD
0181 202 Predicting lignite devolatilization with the multiple parallel and two-competing reaction models

SCHUMBERA, DA
0280 339 Liquefaction of lignite

SCHURESKO, DD
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

SCHURR, SH
0171 4 Energy Research Needs

SCHUSTER, RL
0374 3 First Symposium on Mine and Preparation plant refuse disposal

SCHUTTE, AH
0177 90 Coal processing technology, Volume 3

SCHUTTER, RT
0279 105 Status and plans of H-coal pilot-plant

SCHWAB, B
0478 6 Evaluation of new mining ventures: average cost versus net present value

SCHWAB, J
0676 5 Development program for an ionizer-precipitator fine particle dust collection system as applied to coal-fired utility steam generators

SCHWAGER, I
0276 20 Chemistry and structure of coal-derived asphaltenes, Phase I, Quarterly Progress Report, Jan - March 1976
0276 49 Separation of coal liquids from major liquefaction processes to meaningful fractions
0278 2 Coal-liquefaction products from major demonstration processes. 1. Separation and analysis
0278 24 Novel Approaches for determination of degree of association of coal-derived products by vapor-pressure-osmometry
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0279 5 Separation and characterization of synthoil asphaltene by proton spectrometry
0279 72 Chromatographic separation and characterization of coal-derived asphaltenes
1078 41 Charge transfer complexes of coal-derived asphaltenes
1078 128 Structural characterization of solvent fractions from five major coal liquids by proton nuclear-magnetic-resonance
1079 3 Determination of nitrogen and oxygen functional groups in coal-derived asphaltenes

SCHWALBE, S
0277 58 Multiphase flow of gas-liquid and gas-coal-slurry mixtures in vertical tubes
0277 118 Multiphase flow of gas-liquid and gas-coal slurry mixtures in vertical tubes

SCHWARTZ, AB
0280 126 Conversion of synthesis gas with iron-containing catalyst
0281 188 Catalyzing the energy balance of cat cracking

SCHWARTZ, CW
0182 44 The Westinghouse gasification process

SCHWARTZ, MH
0180 78 Coal Technology '80
0681 188 Coal Technology '81, Vol. 3

SCHWARTZ, SH
0177 256 Proceedings of the third annual underground coal conversion symposium
0179 110 A preliminary model for predicting water intrusion into a cavity formed during the UCG process
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SCHWARTZ, SK
0582 1 Remote environmental monitoring at No. 26 Colliery

SCHWARZ, G
0680 121 Origins of the trace elements zinc, cadmium and vanadium in bituminous coal and their behavior during combustion/die herkunft der spurenelemente zink, cadmium und vanadium in steinkohl en und ihr verhalten bei der verbrennung

SCHWARZ, JA
0178 129 Catalytic hydrogenation of carbon monoxide on nickel foils and powders

SCHWARZ, LJ
0577 5 Arsenic and Antimony in United-States Coal

SCHWARZKOPF, F
0679 123 Metallurgical and chemical-lime production via a coal-fired preheater system

SCHWEBEL, A
1075 1 Characterization of coal by complexation with iodine

SCHWEIGHARDT, FK
0275 2 Chromatographic and NMR analysis of coal liquefaction products

0277 3 Chromatographic characterization of Coal Liquefaction products
0277 144 Characterization of the heterocyclic compounds in coal liquefaction products. Part I: Nitrogen compounds
0278 33 Solvent-extraction of coal-derived products
0278 108 Combined gas-chromatographic mass-spectrometric analyses of nitrogen bases in light oil from a coal liquefaction product
0281 275 600-MHz proton magnetic resonance study of coal-derived liquids
1077 51 Heteroatom species in coal liquefaction products

SCHWEINSBERG,
0878 23 Practical problems in hydrotransport systems

SCHWENDE, FJ
1081 19 Compositional studies of coal tar by capillary gas chromatography/mass spectrometry

SCHWICK, W
1081 173 Investigations on additives to concrete for the prevention of alkali-aggregate reaction

SCHWIEGER, B
0378 68 Choosing the proper coal crusher for central stations, industrial plants
0677 9 Texasgulf keeps West clean while burning Wyoming coal
0678 174 Aiming for high availability of coal-fired utility and industrial steam generators

SCHWIEGER, RG
0679 70 Burning tomorrow's fuels
0681 221 Burlington Industries' program proves worth of shift to coal

SCHWITZGEBEL, K
0574 29 Potential byproducts formed from minor and trace components in coal liquefaction processes
0679 110 Trace-element emissions from coal-fired power-plants

SCINTA, J
0278 122 Catalytic hydrodesulfurization and liquefaction of coal. Batch autoclave studies

SCOBLE, MJ
0479 244 Strength characteristics of rocks associated with opencast coal mining in the U.K.

SCOLLON, TR
0778 22 Coal resources of the Americas. Selected papers

SCOTT, E
0280 17 Carbonization and liquid-crystal (mesophase) development. 16. Carbonizations of soluble and insoluble fractions of coal-extract solution
0280 20 Carbonization and liquid-crystal (mesophase) development. 18. Carbonization of coal-extract solutions (nonhydrogenated): Influence of digestion conditions upon optical texture of cokes
0280 21 Carbonization and liquid-crystal (mesophase) development. 17. Co-carbonization of a solvent-refined coal with petroleum pitches and hydrogenated coal-extract solution

SCOTT, BE
0380 29 New method of oxidized coal flotation
0879 5 Freeze conditioning frozen coal to ease handling and unloading problems

SCOTT, DM
0482 90 How to satisfy dust sampling requirements

SCOTT, DS
0282 188 Flash pyrolysis of Canadian coals

SCOTT, ER
0575 3 Key environmental considerations in remote-siting of coal gasification facilities

SCOTT, FE
0180 63 Along the road to a synfuel industry
0477 5 A woman's place is ... In the Mines?
0480 67 The perplexities of permitting
0480 68 Jones & Bragues success formula for strip mining in Appalachia
0481 60 New ground fault protection system minimizes electrical shock hazards
0481 134 Degasification for safety and profit
1180 6 Along the road to a synfuels industry

SCOTT, FR
1177 24 The present status of fusion power

SCOTT, IS
0681 180 Materials problems in fluidized-bed combustion systems

SCOTT, JE
0177 176 British Gas Corporation, Westfield development center, Technical support program. Report on run TSP001
0180 78 Coal Technology '80
0181 219 Coal Technology '81, Vol. 4

SCOTT, JJ
0177 275 Coal conversion: Practical and legal implications
0475 10 First Symposium on Underground Mining, Volume II
0476 23 Second Symposium on Underground Mining

SCOTT, JO
0173 21 Method of in-situ coal gasification

SCOTT, LW
0479 70 Review of environmental monitoring systems in underground mines

SCOTT, MD
0475 7 Third Symposium on Surface-mining and reclamation, Volume I
0482 67 Samplers pinpoint surface dust

SCOTT, MH
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 145 Development program for MHD direct coal-fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1976
0678 238 Insulator performance and anode-recession-rate in a direct coal-fired cold-copper diagonal-conducting wall MHD-generator

SCOTT, OF
0280 342 Synfuels for utilities

SCOTT, RB
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0477 94 Seventh Symposium on Coal Mine Drainage Research
0578 23 Utilization of fly-ash and coal mine refuse as a road base material

SCOTT, RG
0279 196 Characterization of hydrolytically solubilized coal
1077 40 Oxidative degradation studies of coal and solvent-refined-coal
1078 57 Trapped organic compounds and aromatic units in coals

	1078 121	Characterization of organic acids trapped in coals
	1079 104	Lignin-like polymers in coals
	1080 17	Characterization of a complex mixture of aromatic and heterocyclic acids obtained from oxidation of lignite coal and its solvent-refined products
	1080 118	Characterization of heteroaromatics in coals and coal products
	1081 26	Investigation of aqueous sodium dichromate oxidation for coal structural studies
	1081 27	Is kerogen-like material present in coal? 1. Buffer-controlled permanganate oxidation of coal
	1081 28	Is kerogen-like material present in coal? 2. Chromic acid oxidation of coal and kerogen
	1081 171	Structural characterization of coal: Lignin-like polymers in coals
SCOTT, RL		
	0178 63	Ambient air quality assessment of the Synthane coal gasification pilot plant, six month study (August 1976-January 1977)
	0576 10	Ambient air quality assessment for the Synthane coal gasification pilot plant
SCOTT, TE		
	0177 279	Materials for coal conversion and utilization, Gaithersburg, Maryland
	0178 330	Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
	0179 122	Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
	0180 191	A bibliography of hydrogen attack of steel and relevant ancillary topics
	0279 31	Alloy evaluation for fossil-fuel process plants (Liquefaction). Annual Report, October, 1978 through September, 1979
SCOTTI, LJ		
	0274 5	Application of COED process coal-derived liquids
	0275 24	Char oil energy development, Volume 1, Final report for the period Aug. 1971 - June 1975
	0275 28	Char oil energy development, Volume 11 - Appendix B, computer program documentation, final report for the period August 18, 1971 through June 30, 1975
	0574 16	Clean Fuels from coal by the COED process
SCOUTEN, CG		
	0281 143	Removal of phenols from phenol-containing streams
	0281 285	Silicon-29 NMR: A new tool for coal liquids characterization
SCOVAZZO, VA		
	0481 51	Profit planning begins with mapping
SCRIVEN, RA		
	0580 92	The carbon dioxide problem: A brief assessment of the present position
SCROGER, MG		
	1079 261	The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes
SEABAUGH, PW		
	0178 405	Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
	0179 85	Initial results from a linked-vertical-well field test in bituminous coal
	0179 99	Pricetown-I - Instrumentation and preliminary data
	0179 263	Pricetown I - in-situ coal conversion field test for bituminous coals
	0180 227	Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
	0181 25	Mass balance results for Pricetown I underground coal gasification
	0182 87	Instrumentation for optimizing an underground coal gasification process
	0781 7	Pricetown post test core analysis
SEABORG, GT		
	1178 24	Perspectives on energy: Issues, ideas, and environmental dilemmas

SEALOCK, LJ
0173 46 Alkali carbonate and nickel catalysis of coal-steam gasification

SEALS, RK
0374 3 First Symposium on Mine and Preparation plant refuse disposal

SEALY, T
0478 51 Opencast mining machinery from East-Germany

SEARL, MF
1160 0 Fossil-fuels in the future

SEARLES, RA
0182 113 Catalysis opens up new synthesis routes

SEARS, DR
0681 114 Performance characteristics of low-rank coals in atmospheric fluidized bed combustion

SEARS, JT
0176 60 The role of the carbon - carbon dioxide reaction in gasification of coal and char
0176 129 The role of the char-CO//2 reaction in coal gasification
0178 272 Coal processing technology, Volume IV
0180 72 Elutriation and attrition of char from a large fluidized-bed
0180 144 Reactivity correlation for the coal char - CO//2 reaction
1080 110 The coal char reaction with CO//2-CO gas mixtures

SEARS, PL
0181 42 Rapid pyrolysis and hydropyrolysis of Canadian coals

SEAVEY, RW
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 279 Instrumentation for in-situ coal gasification. 3. Electrical techniques for remote monitoring

SEAVOY, RE
0781 34 Precambrian coal or anthraxolite: A source for graphite in high-grade schists and gneisses

SEAY, JG
0178 11 Coal Gasification

SEBASTIAN, HM
0181 158 Vapor-liquid equilibrium in ternary mixtures of hydrogen + carbon dioxide + tetralin
0181 159 Vapor-liquid equilibrium of the hydrogen + carbon dioxide + quinoline system at elevated temperatures and pressures
0281 12 Solubilities of hydrogen and methane in coal liquids
0281 37 Correlation of solubility of hydrogen in hydrocarbon solvents

SEBOR, G
1080 113 Analysis of coal asphaltenes by carbon-13 Fournier transform nuclear magnetic resonance spectrometry

SEDGMAN, JB
0379 130 Optimization of coal preparation, design based on exploration data

SEDLIK, B
0580 112 Activities, effects and impacts of the coal fuel cycle for a 1,000-MWe electric power generating plant. Final Report

SEDMAN, CB
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

SEEBERGER, JF
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SEED, HB
0481 162 Mine waste disposal technology

SEEHRA, MS
0182 17 Electron spin resonance from impurities in coal-derived pyrites

SEEKER, WR
0182 112 Bench scale testing of low-NO//x LBG combustors
0678 256 The kinetics of ignition and particle burnout of coal dust suspensions under rapid heating conditions - dissertation
0680 128 Shock tube techniques in the study of pulverized coal ignition and burnout
0681 45 The influence of oxygen and total pressure on the surface oxidation rate of bituminous coal
0681 48 The thermal decomposition of pulverized coal particles
0681 148 Observation of the behavior of coal particles during thermal decomposition

SEELEY, FG
0381 31 Determination of extraction equilibria for several metals in the development of a process designed to recover aluminium and other metals from coal combustion ash
0678 16 New processes for the recovery of resource materials from coal combustion wastes

SEELIG, HF
0681 138 Development of a melt-down process with combined direct reduction using any type of fine coal

SEERY, DJ
0180 280 An in situ study of rapid coal pyrolysis using FTIR
0680 219 Investigation of the devolatilization of coal under combustion conditions

SEEWALD, H
0481 151 Relationship between the methane and water permeability and the sorption behavior of coal

SEGAL, HR
0380 149 Coal preparation using magnetic separation, Volume 2

SEGAWA, T
0681 159 Flue gas treatment system for coal fired thermal power plants

SEGLIN, L
0174 50 Methanation of Synthesis-Gas
0174 51 Survey of methanation chemistry and processes

SEGUR, H
0677 142 Modeling two-phase flow in a swirl combustor. Final Report. ARAP Report No. 310

SEHGAL, R
0181 223 Technology and use of lignite, Vol. 1 and 2

SEIBEL, RJ
0481 162 Mine waste disposal technology

SEIBER, BL

0678 186 Report on the MHD performance demonstration experiment for the period October 1976 to September 1977
0679 33 Report on the MHD performance demonstration experiment for the period October 1977 to September 1978

SEIDER, WD
0176 50 Computer aided industrial process simulation & design
0380 2 Coal pretreatment - extensions of flowtran to model solids-handling equipment

SEIKEL, GR
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 49 Evaluation of the ECAS open-cycle MHD power-plant design
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0679 5 Performance optimization of an MHD generator with physical constraints

SEINOV, NP
0477 156 The role of water in the blasting process

SEITH, RT
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

SEITZER, WH
0278 67 Bench scale coal liquefaction studies
0380 85 Process for drying and stabilizing coal

SEKAR, S
0179 167 Coal gasification: Its need and environmental aspects

SEKEL, DJ
0580 143 Biological treatment of synthetic fuel wastewater

SEKHAR, N
0678 181 Improved electrostatic-precipitator performance by use of fly-ash conditioning agents

SEKHAR, KC
0576 24 Hydrothermal coal desulfurization with combustion results

SEKI, H
0279 137 CHERRY-P process (Treatment of heavy ends)

SEKIGUCHI, I
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal

SEKIGUCHI, Y
0281 354 Catalytic and non-catalytic flow-pyrolysis of bibenzyl - possible homolytic and heterolytic processes on basic CaO

SEKIZAWA, T
0676 31 Fluidization technology, volume 1

SEKRIERU, VI
0178 373 Investigation of the combined pyrolysis of coal and petroleum
0278 197 Physicochemical characteristics of gas coals as a raw material for obtaining synthetic liquid fuel

SEKULA, EP
0478 193 Develop a draft power sensor for improved dozer performance, Final Report, Volume 1
0478 194 Develop a Draft Power Sensor for improved dozer performance, Final Report, Volume 2

SELEGUE, JP

0280 200 Reactions of heterocumulenes with triosmium clusters

SELF, DM
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90
0777 10 Trend areas and exploration techniques - Occurrence and characteristics of Midway and Wilcox-lignites in Mississippi and Alabama

SELF, SA
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices
0677 128 A high magnetic field MHD generator program, Annual report, July 1976 - June 1977
0680 11 Optical measurements of mean-particle-size in coal-fired MHD flows
0680 129 Two-wavelength laser transmissometer for measurements of the mean size and contraction of coal ash droplets in combustion flows

SELFE, J
0878 20 Waste Disposal System - NCB North-East Area

SELIVANOVA, ZG
0379 118 Optimizing coal tar preparation for processing

SELKER, AP
0677 70 Overfire air technology for tangentially fired utility boilers burning western United-States coal

SELL, FR
0180 78 Coal Technology '80

SELLER, H
0176 61 Use of process computer in coal gasification

SELLGREN, A
0882 45 Integration of mine dewatering installations with a hydraulic hoisting system

SELLSCHOP, JP
0581 16 Pixe analysis of time-sequence 'streaker' filters from Johannesburg

SELMECZI, JG
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0474 3 Fifth Symposium on Coal Mine Drainage Research

SELNER, JE
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

SELUCKY, M
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

SELUCKY, ML
0282 61 Role and present status of analytical supporting services and investigations in the coal conversion programs
1081 44 E.s.r. measurements on asphaltene and resin fractions from various separation methods

SELVIG, WA
1057 0 Low temperature carbonization assays of North American coals

SELWITZ, CM
0280 283 Process for recovering phenols from a hydrocarbon mixture containing the same

SELZER, VW
0277 132 Fluidization theories and applications

SEMACHAIBOVORN, S
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SEMENOV, BM
1081 122 Factors determining the properties of coal moldings from weakly caking hard coals

SEMON, HW
0580 21 Feasibility study of coal slag based glasses for hot gas clean up, final report of phase 2

SEN, P
0178 283 Fluidization characteristics of coal-air bed after slug break-up
0682 26 Mathematical model of concentration distribution of a pulverized coal jet in a horizontal combustion chamber

SEN-GUPTA, P
0182 43 Pressure drop in partially fluidized liquid-solid systems

SENDLEIN, LVA
0477 92 Fifth Symposium on Surface-mining and reclamation

SENEW, MJ
1177 37 An evaluation of regional trends in power-plant siting and energy transport

SENFTLE, FE
0382 0 Ferromagnetic and superparamagnetic contamination in pulverized coal
0978 1 In-situ analysis of coal using a 252Cf-Ge(Li) Borehole-Sonde
1079 72 Basic magnetic properties of bituminous coal
1081 81 Electrolytic oxidation of anthracite

SENFTLE, JT
1081 180 Carbon-13 CP/MAS study of coal macerals of varying rank

SENGOKU, T
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

SENGUPTA, B
1079 32 Microbial removal of organic sulfur from coal

SENGUPTA, C
0677 101 Water/oil emulsion combustion in boilers and gas-turbines

SENGUPTA, S
0477 153 Ground vibrations from open pit blasts

SENGUPTA, U
0277 81 Studies on the separation of coal extract from solid residue in liquefied coal

SENKAN, SM
0179 160 Effect of NaOH treatment on surface properties of coal

SENSING, TA
0179 92 Low and medium-BTU gasification - A chemical industry perspective
0180 15 Coal utilization in the chemical industry

SEPANIAK, MJ

0281 120 High-performance liquid chromatographic studies of coal liquids by Laser-based detectors

SERAFINI, A
0178 316 Bibliography of subsidence and related topics for in-situ coal gasification

SERAGELDIN, MA
1082 67 Coal decomposition: effects of heating rate and furnace atmosphere

SERBENT, H
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SERDYUK, NS
0380 180 Regulating magnetite suspension viscosity in heavy-medium separators

SERGATYUK, AF
0780 42 Thermostimulated electrical conductivity as a method of differentiating coals according to rank

SERGEANT, GD
0182 6 Reactivity of Australian coal-derived chars to carbon dioxide

SERGEEV, VM
1079 179 A mathetical model of the anomalous oxidation of graphite at 1 300-2 700-degrees-C

SERGEEV, VS
1078 147 Change in the properties of coal dust after an explosion

SERIO, MA
0180 285 Critical studies in the rapid pyrolysis and hydropyrolysis of coal - Project Report July 1, 1979 - March 31, 1980

SERPEMEN, Y
0281 70 On the relevance of mass transfer limitations in the Fischer-Tropsch slurry process
0282 116 Fischer-Tropsch synthesis in the slurry phase on Mn/Fe catalysts

SERRAJIAN, NM
0580 174 Environmental data energy technology characterizations - coal

SERRES, AJ
0280 52 Bitumen separation for experimental use

SERVAIS, RA
0576 8 Energy and the environment. Proceedings of the fourth national conference

SESHADRI, KS
0278 105 Application of carbon-13 nuclear-magnetic-resonance spectrometry to coal chemistry: Calculation of transferable hydrogen
0279 81 Isomerization and adduction of hydrogen-donor solvents under conditions of coal liquefaction
0282 33 Characterization of needle coke feedstocks by magnetic resonance spectroscopy
0381 105 Difference in the behavior of 200 X 0 Kentucky No. 9 and Illinois No. 6 coals in surface controlled beneficiation

SESKUS, AP
0181 230 Assessment of small UCG-to-methanol plants

SESSLER, G
0580 132 Sammis Generating Station: Meeting SO//2 and particulate standards with cleaned Ohio coals

SETH, M
1077 29 Interaction of a sub-bituminous coal with a strong acid and a strong base

SETH, RL
1080 121 Comparison of the characteristics of pitch coke and petroleum coke

SETHI, D
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SETHI, DS
0580 127 Regenerative process for desulfurization of high temperature combustion and fuel gases

SETZEPFANDT, W
0878 26 Full face mechanized rock tunnel drivage with hydraulic debris disposal

SETZER, HJ
0681 165 Development of the Adiabatic reformer to Process No. 2 Fuel oil and coal-derived liquid fuels

SEUFER, FB
0179 61 Conceptual designs for water treatment in demonstration plants, II. Appendix - Design procedures

SEUFERT, FB
0179 60 Conceptual designs for water treatment in demonstration plants, I. Plant designs

SEVAL'NEVA, TT
0280 310 The forms of molybdenum compounds in the sludges from the coal liquefaction process

SEVCIK, J
1080 5 Application of a multidimensional switching system (MDSS) to coal-tar analysis

SEVERANCE, RL
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

SEVERIN, D
0281 133 Liquid Chromatography of coal oil fractions

SEVERIN, K
0580 103 Microscopical analysis of aerosols collected in St. Louis, Missouri

SEVERSON, DE
0170 4 Slagging fixed-bed gasification of North Dakota lignite at pressures to 400 psig.
0181 223 Technology and use of lignite, Vol. 1 and 2
0277 135 Project Lignite - final technical report, March 28, 1972 -June 15, 1977
0277 147 Solvent refined lignite process development - Quarterly Technical Progress Report No. 1, July - September, 1977
0278 148 Process development for solvent-refined-lignite laboratory autoclave studies: Part II. Project Lignite: Premium fuels from Northern Great Plains Lignite R & D Report No. 106, Interim report No. 4
0278 234 Solvent refined lignite process development - Quarterly Technical Progress Report No. 2, October - December, 1977
0279 118 Application of liquefaction process to low-rank coals
0279 230 Solvent refined lignite process development - Final Technical Report, June, 1977-June, 1978
0280 7 UND hot-charge time-sample batch autoclave facility
0280 290 Laboratory batch liquefaction of low rank coals
0282 52 Low-rank coal liquefaction employing H//2S as a homogeneous catalyst

0282 74 Effect of added hydrogen sulfide on the liquefaction of low-rank Western coals
0677 56 Technology and use of lignite

SEVERSON, SD
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SEVIAN, WA
0173 26 Analysis of hydrogen energy systems report to subgroup on synthetic-fuels, Office of Science and Technology
0579 22 Coal-conversion technologies, some health and environmental effects

SEVIGNY, R
0180 290 Addition to the Lewis Chemical equilibrium program to allow computation from coal composition data
0181 221 The Lewis chemical equilibrium program with parametric study capability

SEVOST'YANOV, VV
0779 6 Influence of geological and mining extraction-field anomalies on rock pressure phenomena

SEWELL, GF
0379 48 Emergency lighting of coal preparation plants

SEWELL, JM
0476 22 Sixth Symposium on Coal Mine Drainage Research

SEXTON, NG
0580 140 Compilation of environmental assessment data, February 1978 - March 1979. Volume 1. Studies 1-7

SEXTON, RW
0679 106 Erosion-corrosion effects on boiler tube metals in a multisolids fluidized-bed coal combustor

SEYCHUK, JL
0879 8 Geotechnical aspects of Thunder-Bay terminals

SEYER, WF
1052 2 Second Conference on the origin and constitution of coal

SEYFERTH, D
0279 79 Silylation: A method for benzene solubilization of benzene-insoluble, pyridine-soluble coal-derived products

SEYMOUR, DA
1177 37 An evaluation of regional trends in power-plant siting and energy transport

SEYMOUR, FD
0580 84 Nuclear electronic instrument systems using the Harwell 6000 series

SEYMOUR, WC
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SGAMBAT, JP
0580 115 Effects of underground coal mining on ground water in the Eastern United-States

SHABTAI, J
0279 153 Hydrogenation of coal liquids in the presence of sulfided Ni-Mo/Al//2O//3
0279 194 Catalytic cracking of hydrotreated coal-derived liquids (hydro-CDL) and related polycyclic naphthenes
0281 272 Characteristics of coal-derived liquids from different processes: relationships to coal structure

SHACK, WJ

0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 178 The erosion of a type 310 stainless steel cyclone from coal gasification pilot plant
0180 179 Development of a noninvasive acoustic leak detection system for large high pressure gas valves

SHACKELTON, M
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SHACKLETON, MA
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

SHADDOCK, VM
1079 43 Analysis of coal liquids by mass-analyzed ion kinetic energy spectrometry

SHADMAN, F
0680 45 An analytical model for the combustion of coal particles

SHADOAN, DJ
0580 0 Environmental and climatic impact of coal utilization

SHADRIN, AG
0477 187 Calculating the durations of surface movements

SHAFER, P
0580 58 Laboratory support

SHAFER, JR
0178 216 Sulfuric-acid plants for handling hydrogen-sulfide gases

SHAFFER, FE
0877 0 We can handle it

SHAFIR, GS
0163 1 Underground processing of fuels
0178 366 Use of a power gas obtained in the gasification of the coals
0178 371 Gasification of coals in a fluidized bed under pressure in a steam oxygen jet
0178 399 The gasification of coal in a fluidized bed under pressure with the high-temperature purification of the gas on the experimental plant of the Moscow by-product coke works
0181 135 The use of technological gas for the production of methanol
0181 141 Production of synthetic natural gas from coals

SHAH, B
0176 45 Fluidization characteristics of coal gasification materials
0678 130 Fluidization correlations for coal gasification materials-minimum fluidization velocity and fluidized-bed expansion ratio

SHAH, S
0680 240 Bed expansion and heat transfer measurements in a pressurized fluidized bed

SHAH, V
0179 283 Hot, low-Btu producer gas desulfurization in fixed bed of iron-oxide fly-ash, final report, July 1977 - March

1978
0281 279 Moessbauer study of the transformation of iron minerals during coal conversion

SHAH, JK
0178 184 Improved methanation system for use in coal gasification, Final report

SHAH, KR
0278 118 Solvent-refined-coal (SRC) process: Trace-elements, Research & development report No. 53, Interim report No. 26, Volume III: Pilot-plant development work, Part 6: The fate of trace-elements in the SRC process
0677 84 The nature of metals in petroleum fuels and coal derived synfuels

SHAH, ND
0682 22 Dry scrubbing of SO//2

SHAH, RD
0576 12 Operation of the Westinghouse coal gasification PDU

SHAH, SS
0581 19 Putting a data logging system to work

SHAH, YT
0180 82 Multiple steady states in adiabatic gas-liquid-solid reactors
0277 100 Investigation of mechanisms of hydrogen-transfer in coal hydrogenation, Annual Progress Report, July 1976 - June 1977
0278 22 Kinetics of catalytic liquefaction of Big-Horn-coal
0278 29 Kinetics of thermal liquefaction of Belle-Ayr sub-bituminous coal
0278 34 Kinetics of catalytic liquefaction of Big-Horn coal in a segmented-bed reactor
0278 51 Settling of coal in coal-oil slurries
0278 205 Investigation of mechanisms of hydrogen transfer in coal hydrogenation, phase 1, final report, July, 1976 - December 1977
0279 81 Isomerization and adduction of hydrogen-donor solvents under conditions of coal liquefaction
0279 93 Mechanism and kinetics of selected hydrogen transfer reactions typical of coal liquefaction
0279 97 Oxygen, nitrogen, and sulfur removal reactions in donor-solvent coal liquefaction
0280 122 Coal liquefaction process employing multiple recycle streams
0280 261 Pyrolysis of coal liquids
0281 100 New experimental techniques for the high temperature high pressure gas-liquid-solid reactors
0281 173 Processes for direct coal liquefaction by solvent extraction
0281 175 Refining of coal liquids
0281 190 Heteroatom removal during liquefaction
0281 191 Design of coal-liquefaction reactors
0281 192 Kinetic models for donor-solvent coal liquefaction
0281 286 Structure and properties of coal and the mechanism of coal liquefaction
0281 318 Chemical and physical aspects of refining coal-liquids
0282 17 Kinetics of thermal liquefaction of coal
0282 62 Steady state thermal behavior of an adiabatic three phase slurry reactor - coal liquefaction under slow hydrogen consumption reaction regime
0282 121 Liquefaction of coal by SRC-II process Part I: A new kinetic model
0282 122 Liquefaction of coal by SRC-II process Part II: Simulation of an SRC-II recycle system
0380 16 Kinetics of oxydesulfurization of Upper-Freeport coal
0381 43 Kinetics of organic sulphur removal from coal by oxydesulphurization

SHAHN, V
0281 158 Moessbauer study of transformations of pyrite under conditions of coal liquefaction

SHAHROKH, F
1180 41 Spatial equilibrium in the US coal industry

SHAIKH, AM
0282 171 Liquefaction of Western Canadian coals

SHAKESPEARE, WJ
0677 42 Analysis of power cycles with centrifugal fluidized-bed coal combustion

SHALABI, MA
0178 272 Coal processing technology, Volume IV

SHALE, CC
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SHALU, AV
0379 84 An investigation of the kinetics of dewatering of coal fines in a centrifugal field

SHALVOY, R
0280 77 ESCA and AES analysis of SRC-I distillation tower corrosion
0280 86 Catalysis research/liquefaction
0280 98 The mechanism of sulfur poisoning of nickle methanation catalysts
0680 80 Chlorine in Kentucky coal

SHAML'MO, VM
0680 175 Features of the quantitative analysis of the volatile products liberated on the heating of coals using the mass-spectrometric method

SHANER, JW
1077 68 Thermophysical and transport properties of metals at high pressure and very high temperature

SHANG, JY
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SHANHOLTZ, VO
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

SHANKLIN, RV
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

SHANKS, HR
0580 106 Assessment of needs for environmental controls for burning a coal-oil mixture in a slot forge furnace. Final report

SHANNON, LJ
0577 64 Impact of particulates and sulfur dioxide from coal-fired power-plants on acid-rain

SHANNON, MJ
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SHANTZ, R
0377 23 Strategy for coal washing operations in New-Mexico
0378 24 Washability tests and heat content predictions for New-Mexico coals

SHAPATINA, EA
0280 132 Method for heat processing of pulverized brown-coal
0280 139 Heat processing of pulverized carboniferous material

SHAPIRO, E
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

SHAPIRO, M
0578 85 Preliminary evaluation of PETC-coal conversion solid and hazardous wastes, Progress report for September 1977 - September 1978
0579 62 Final evaluation of petc coal conversion solid and hazardous wastes. Final Report, September 15, 1977-November 30, 1979

SHAPIRO, MA
0580 195 Laboratory leaching of coal conversion solid wastes - Progress Report, November 1, 1979-January 31, 1980

SHAPIRO, MD
1077 75 Macromolecular structure of coals and their technological properties

SHAPIRO, MM
0379 119 Selecting blends of run-of-mine coals by linear programming

SHAPLEY, JR
0280 209 Alumina-supported tungsten-and molybdenum-trismium clusters as carbon monoxide hydrogenation catalysts

SHAPRANOV, VV
1079 228 Polarographic analysis of mellitic and pyromellitic acids and their mixtures

SHARAN, HN
0678 128 Development of fluidized combustion boilers for Indian coals

SHARIFI-SANDJANI, N
0280 285 Gas chromatographic study of methylstyrenes in the light-oil fraction of coal distillate using selective hydrogenation

SHARKEY, AG
0178 402 Coal conversion: the role of the analyst
0277 41 Screening for hazardous elements and compounds in process streams of the 1/2-ton-per-day Synthoil process development unit
0277 142 Low-temperature pyrolysis of synthoil centrifuged solids
0277 144 Characterization of the heterocyclic compounds in coal liquefaction products. Part I: Nitrogen compounds
0477 95 Third Symposium on Underground Mining
0478 176 Automating longwall processes
0577 90 Chemical characterization of diesel exhaust particulates
1073 8 Trace-elements in coal dust by spark-source mass-spectrometry

SHARMA, R
0282 105 Measurement and correlation of the enthalpy of coal-derived liquids

SHARMA, BK
1081 142 Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl

SHARMA, DF
0380 19 Coal quality control at Kaiser Resources

SHARMA, DK
0278 144 Extraction of assam coal through formylation

SHARMA, KJ
0277 89 Synthetic liquid fuels development: Assessment of critical factors. Volume IV. Energy/economic comparison of

coal based automotive energy supply systems

SHARMA, PK
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SHARMAN, RB
0180 78 Coal Technology '80
0181 219 Coal Technology '81, Vol. 4

SHARP, DW
0180 91 Alkali metal recovery from carbonaceous material conversion process
0180 92 Process for carbonaceous material conversion and recovery of alkali metal catalyst constituents held by ion exchange sites in conversion residue

SHARP, EG
0580 1 Coal burning is wrapped in red tape

SHARP, JA
0680 15 Simple volatility test for bituminous materials

SHARP, JJ
0382 28 Treatment of fuel peat to enhance moisture removal

SHARPE, DE
1081 224 Coke production process

SHARPE, JE
0880 25 Steam locomotives

SHARUDO, II
1078 140 Influence of the geochemical environment on the quality of coals

SHATSKII, VM
1079 217 Isolation of scandium from brown-coal ash

SHAW, H
0177 60 Effect of sulfur on the Fischer-Tropsch synthesis
0381 28 A comparative assessment of flue gas treatment processes Part I - Status and design basis
0574 26 Technology needs for pollution abatement in fossil-fuel conversion processes
0578 114 Environmental assessment of coal conversion to gaseous and liquid fuels and electric power
0580 19 Environmental R & D needs for advanced power plants
0673 2 A regenerative limestone process for fluidized-bed coal combustion and desulfurization

SHAW, J
0778 8 Natural resources inventory information index
0779 0 Natural resources inventory information index

SHAW, K
0976 0 Coal Exploration

SHAW, AJ
1076 26 Coating coal with wetting agent followed by treatment with coal for emulsion

SHAW, BJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SHAW, BW
0277 124 Flash-pyrolysis coal liquefaction process development annual report for January - December 1977
0281 359 Process for minimizing solids contamination of liquids from coal pyrolysis

SHAW, DE
0477 181 Mine entry system longwall top slicing thick coal seams. Final report Volume II
0477 182 Mine entry system longwall top slicing thick coal seams. Final report volume 1

SHAW, FH
1081 229 The optical anisotropy of coke in relation to metallurgical coke making

SHAW, SR
0379 42 Coal preparation developments from the NCB's mining research and development establishment

SHAW, WH
0479 257 Performance of a waste rock dump on moderate to steeply sloping foundations

SHAWLER, M
0474 3 Fifth Symposium on Coal Mine Drainage Research

SHCHEGOLEV, SV
0378 71 Screening coal fines before crushing in preparation for coking

SHCHEGOLEVA, EN
0379 72 Mechanism of the action of water glass in the flotation of Karaganda coals

SHCHELKUNOVA, TF
0177 214 Kinetics of the thermal decarboxylation of brown-coal

SHEA, EP
0476 22 Sixth Symposium on Coal Mine Drainage Research

SHEARER, J
0677 39 Reducing the environmental impact of solid wastes from a fluidized-bed combustor
0678 21 Factors limiting limestone utilization efficiency in fluidized-bed combustors
0680 42 The effects of calcium chloride on limestone sulfation in fluidized-bed coal combustion

SHEARER, DM
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0181 18 The channel flow flame regime of borehole reverse combustion

SHEARER, HA
0172 12 Economic evaluation of COED process plus char gasification
0174 12 Coal processing technology

SHEARER, JA
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0580 20 Hydration enhanced sulfation of limestone and dolomite in the fluidized-bed combustion of coal
0678 150 The effect of sodium-chloride on the reaction of SO//2/O//2 mixtures with limestones and dolomites
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978
0679 39 The effect of CaCl//2 additive on the reaction of SO//2O//2 mixtures with carbonate rocks
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

0680 237 Sorbent utilization prediction methodology: sulfur control in fluidized-bed combustors

SHEEHAN, JD
0374 0 Coal utilization symposium - Focus on SO//2 emission control

SHEEHAN, TV
0177 137 Flash-hydropyrolysis process for conversion of lignite to liquid and gaseous products

SHEELER, BD
1077 88 Determination of sulfur, ash, and trace-element content of coal, coke, and fly-ash using multielement tube-excited x-ray-fluorescence analysis

SHEEN, SH
0181 82 Ultrasonic properties of coal slurries and flow measurements by cross correlation

SHEER, C
0173 38 Arc synthesis of hydrocarbons

SHEESLEY, DC
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 26 A simple solvent extraction scheme employing dissolved organic carbon analysis for the characterization of organic by-products from simulated in situ coal gasification

SHEETS, JW
0477 93 Third Institute on Coal Mine Health and Safety

SHEETS, LP
0479 189 Electromagnetic properties of coal mine strata

SHEFFIELD, FH
0579 87 An integrated assessment of Texas lignite development, Volume I. Techanical analyses

SHEIBLEY, DW
1073 13 Trace-elements by instrumental neutron activation analysis for pollution monitoring

SHEIDLIN, AE
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

SHEINA, NI
0279 201 Crystallization of anthracene fraction

SHEINDLIN, AE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 149 Carbon-dioxide magnetohydrodynamic laser

SHEINDLIN, AY
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

SHELBURNE, JD
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

SHELDON, RC
0180 289 Coal-derived fuel flexibility for today's combined cycles

SHELEF, M
0179 17 Effects of calcium, strontium, and barium as catalysts and sulfur scavengers in the steam gasification of coal

chars
0179 185 Catalysis of carbon-steam gasification by ash components from two lignites

SHELEPIN, OE
0677 52 Some new information on the problem of the spontaneous combustion of coals in the earth's crust

SHELFO, S
0179 164 Synthesis of thermosetting polymers from the by-products of coal conversion processes

SHELKOV, EM
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 149 Carbon-dioxide magnetohydrodynamic laser

SHELL, AL
0177 256 Proceedings of the third annual underground coal conversion symposium

SHELTON, S
0579 40 Charged membrane ultrafiltration of multisalt systems: Application to acid mine waters

SHELYAKIN, LE
0378 64 Cleaning coal slurries in column-type flotation machines

SHEMO, SD
0180 153 Texaco-based gasification-combined-cycle system performance studies
0181 4 Performance of air-cooled power plants using gas from coal, final report

SHEN, J
0173 0 Multiple zone gasification of coal

SHEN, L
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SHEN, S
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SHEN, JL
0181 194 Instrumentation and control system for a coal gasification plant

SHEN, LN
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SHEN, MS
0677 173 Regeneration of lime for fluidized-bed combustion with carbon, with silica and with coal-ash
0678 71 Fluidized-bed combustion of coal with lime additives: Catalytic sulfation of lime with iron compounds and coal-ash
0679 23 A regenerative process for fluidized-bed combustion of coal with lime additives
0679 64 Calcium-silicates: A new class of highly regenerative sorbents for hot-gas desulfurization
0680 96 Catalytic iron oxide for lime regeneration in carbonaceous fuel combustion

SHEN, TT
0577 63 Characterization of differences between oil-fired and coal-fired power-plant emissions

SHEN-TU, CK
0178 378 Dry solids flow meter, final report

SHENDRIK, TG

0679 149 Periodicity of the oxidation of hard coals
1078 175 Influence of ALPHA-naphthylamine on the oxidation of typed coal
1079 161 Study of the alpha - naphthylamine - inhibited oxidation of hard coal

SHENFEL'D, BE
1078 189 Activation of carbonized granules by steam

SHENOY, TA
0180 131 Cryogenic process for separating synthesis gas

SHEPARD, PW
1080 114 Anisotropic electrical properties of coal

SHEPARD, WS
0677 248 Testing and evaluation of MHD materials and sub-structures. Annual technical progress report, July 1976 - June 1977

SHEPHERD, C
0481 2 Underground mining at shallow depths
0880 32 A review of underground transport systems in the Barnsley area of the National Coal Board

SHEPHERD, J
0478 276 Faults and their effect on coal mine roof failure and mining rate: A case study in a New-South-Wales colliery
0481 64 Outbursts and geological structures in coal mines: a review

SHEPHERD, AD
0181 199 Environmental implications of small fixed-bed gasifiers for industry

SHEPHERD, JA
0882 54 The effects of viscosity reducing chemical additives on slurry rheology and pipeline transport performance for various mineral slurries

SHEPHERD, JR
0779 9 Forewarning of faults and outbursts of coal and gas at Westcliff Colliery

SHEPHERD, PM
1080 123 Glass transformation in some pitch materials

SHEPICH, TJ
0478 88 Mandatory safety and health training of miners, provisions in the New Federal Act and a review of German, British, and Polish programs

SHEPILOV, IP
1079 209 Influence of the conditions of grinding a coke-pitch composition on the properties of fine-grained graphite

SHEPTOVITSKII, MS
0380 117 Modern trends in thermal processing of coal shapes (briquettes)
1079 251 Laboratory procedure for testing the suitability of coals for formed coke production

SHERER, HE
0481 130 How to evaluate the economics of dragline stripping alternatives

SHERIDAN, D
0180 305 Shift conversion and methanation in coal gasification: bench-scale evaluation of a sulfur-resistant catalyst - Final report

SHERIDAN, ET

0778 22 Coal resources of the Americas. Selected papers

SHERLOCK, E
1049 0 Graphical studies of the properties of Alberta-coals
1049 2 A classification of Alberta coals

SHERLOCK, J
0280 21 Carbonization and liquid-crystal (mesophase) development. 17. Co-carbonization of a solvent-refined coal with petroleum pitches and hydrogenated coal-extract solution
1081 31 Microscopy study of bonding in co-carbonizations between coke grist from coal-extract solution and coal-tar binder

SHERLOCK, HB
0881 48 Coal Technology '81, Vol. 2

SHERMAN, S
0280 71 Bench scale ebullating bed-fluid dynamics
0580 35 Environmental base-line data
0680 75 Materials testing for AFBC

SHERMAN, JW
0174 26 Acoustic-array methods for instrumentation of in-situ coal gasification

SHERMAN, LG
0180 228 Gasification process

SHERRARD, RS
1082 38 Aryl-alkyl groups in coals

SHERRY, HS
0180 123 Preparation of naphtha by conversion of synthesis gas with a fluid catalyst which contains iron
0280 125 Conversion of synthesis gas with cobalt-containing fluid catalyst

SHERWIN, M
0179 331 Liquid-phase methanol, final report

SHERWIN, MB
0174 59 Liquid-phase-methanation of high concentration carbon monoxide synthesis-gas

SHERWOOD, AE
0178 244 A one-dimensional model for in-situ coal gasification
0178 325 Moving equilibrium front model for in-situ gasification

SHETH, A
0680 148 Study of Seed Reprocessing systems for coal fired open cycle coal fired MHD power plants: Task I, Selection of processes for more detailed study

SHETH, P
0278 153 Laboratory program to support H-Coal pilot plant operations. PDU run 6: Syncrude mode operation using Wyodak coal

SHETH, AC
0678 77 Evaluation of available MHD seed regeneration processes on the basis of energy considerations

SHETPA, OV
0279 201 Crystallization of anthracene fraction

SHETTY, DK
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

SHEVCHENKO, ID
0679 136 Statistical methods of studying the structure of coal matter. Determining the chemical composition of domestic electrode pitches by spectral-statistical methods

SHEVCHENKO, NM
1078 155 Non-fuel processing of coals

SHEVLIN, TS
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SHEWCHUK, M
1179 15 Will British-Columbia develop its unused coal wealth?

SHEWMON, PG
0678 262 Materials in coal utilization: mechanical and electrical properties

SHEYBANY, S
0180 170 The effect of preoxidation on the corrosion of some alloys in coal chars and sulfur vapor

SHEYNDLINE, AY
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

SHIBAEV, RM
0679 127 Influence of the aggressive action of the products of the rapid pyrolysis of brown coal on constructional materials

SHIBAOKA, M
0279 84 New experimental device for pyrolysis of coal particles under controlled conditions over a wide range of heating rates
0279 151 Hydrogenation reactivity of petrographic composition of coal
0279 162 Studies on coal hydrogenation reaction using high pressure differential thermal analysis
0280 4 Some aspects of the behaviour of tin chloride during coal hydrogenation in the absence of a solvent
0281 23 Behavior of vitrinite macerals in some organic solvents in the autoclave
0282 0 Coal liquefaction with metal halide catalysts at short residence times
0282 12 Coal liquefaction model: microscopic examination of solids from metal halide catalysed coal hydrogenation experiments
0677 85 Microscopic investigation of the behaviour of inorganic material in coal during combustion
1078 188 Application of a single-cell high-pressure DTA technique to coal hydrogenation research
1079 10 Microscopic observations of the swelling of a high-volatile bituminous coal in response to organic solvents
1081 42 Changes in vitroplast derived from a high-volatile bituminous coal during tetralin treatment
1082 7 Mesophase formation and the degree of hydrogenation of coal
1082 10 Behaviour of huminite macerals from Victorian brown coal in tetralin in autoclaves at temperatures of 300-380-deg-C

SHIBATA, S
0282 11 Assessment of the activities of catalysts for the hydrocracking of coal by means of hydrogen evolution

SHIBLOM, CM
0280 197 Surface studies of the interaction of nickel and antimony on cracking catalysts

SHIELD, D
0482 51 Advance longwall mining in Nova Scotia

SHIELDS, S
0280 8 Solvent-refined-coal: Energy savior or health hazard
0480 107 Degasification takes a profitable direction

SHIELDS, DH
0374 3 First Symposium on Mine and Preparation plant refuse disposal

SHIELDS, KJ
0679 132 Two coal combustion alternatives: Reducing pollution potentials

SHIELDS, SE
0279 27 H-coal fluid dynamics, annual technical report for the period August 1977 - August 1978

SHIFRIN, SI
0380 139 Hydrocyclones to remove sludge from coal fines

SHIH, C
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

SHIH, SS
0279 134 Upgrading of coal liquids for use as power generation fuels
0280 302 Catalyst assessment for upgrading short contact time SRC to low sulfur boiler fuels

SHILEY, RH
0179 242 Mossbauer studies of iron in Lurgi gasification ashes and power plant fly and bottom ash
0279 47 Calibration standard for X-ray-diffraction analyses of coal liquefaction residues: Moessbauer spectra of synthetic pyrrhotite
0580 182 Chemical and biological characterization of leachates from coal solid wastes
1080 31 Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal-conversion processes
1080 133 Moessbauer studies of illites and heat-treated illite as related to coal-conversion processes

SHILLING, NZ
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SHIMADA, M
0676 31 Fluidization technology, volume 1

SHIMADA, T
0282 118 Determination of field ionization relative ion sensitivities in mass spectrometry of coal-derived oil components

SHIMAN'SKI, A
0179 309 The effect of certain parameters on the process of flame pyrolysis of coals

SHIMIZU, K
0280 135 Process of liquefaction of coal

SHIMOKAWA, S
1081 164 Temperature dependence of hydrogen-1 NMR absorption in coal and pitch

SHIMOMURA, M
0282 22 Superacid-catalyzed coal solubilization with olefin under relatively mild conditions

SHIMP, AB
0475 10 First Symposium on Underground Mining, Volume II

SHIMP, NF
0574 7 Distribution of trace-elements in coal
0580 182 Chemical and biological characterization of leachates from coal solid wastes
0781 19 Abundance of trace and minor elements in organic and mineral fractions of coal
1073 10 X-ray fluorescence analysis of whole coal
1081 197 Removal of organic sulfur by low-temperature carbonization of Illinois coals

SHINE, SM
1077 16 Study of coal reactivities, Annual Report, June 1976 - May 1977

SHINN, JH
0279 165 Coal conversion catalysis using zinc-chloride in organic media - dissertation
0280 114 Coal liquefaction catalysis by zinc chloride melts in combination with organic solvents
0280 234 High-yield coal conversion in a zinc chloride/methanol melt under moderate conditions
1079 174 Scanning electron microscopy study of the solubilization of coal under mild conditions

SHINN, MH
0879 14 Metal removal from water by granular coal in coal slurry pipelines

SHINNAR, R
0178 311 Gasifier study for Mobil coal to gasoline process, Final report

SHIRAI, T
0676 31 Fluidization technology, volume 1

SHIRAI, TT
0676 31 Fluidization technology, volume 1

SHIRAISHI, K
0281 124 Effect of precarbonization temperature on liquefaction of lignites

SHIRAZI, ZH
0176 62 Fischer-Tropsch synthesis (Production of liquid-fuels from coal)
0179 220 Gasification of coal

SHIRES, MJ
0180 177 Gasified Coal - starting point for chemical manufacture
0180 187 Synthesis gas from coal
0181 118 Fuel gas from coal

SHIROTA, Y
0676 32 Fluidization technology, volume 2

SHIROTO, Y
0279 136 Upgrading of residual oils by asphaltene conversion

SHIRTUM, RP
0277 14 Conversion of coal-based methanol to gaseous fuel proposed.

SHISHENINA, EP
1080 93 Features of the composition of the bitumoids of coal of different ranks from the Pechora Basin

SHIZUO, K
0477 41 Theoretical studies on unsteady-state gas flow through coal seam.

SHKOLLER, MB

0380 160 Coking a preheated charge with a high content of gas coal at the Western Siberia Iron and Steel Works

SHLAPAKOVA, EI
1080 204 Results of industrial trials on the elimination of petroleum products from industrial effluents with natural coals

SHLIKHTER, EB
0180 267 Prospects and technical and economic evaluation of methods of obtaining synthetic liquid fuel from coal

SHMAKOVA, ES
1080 163 Dimensional and structural changes of pyrocarbon on heat treatment

SHMAL'KO, VM
0180 175 A complex mass-spectrometric and derivatographic investigation of the initial stages of the transportations of coals
1079 175 Certain problems of methodology and experimental techniques for analysis of coal-tar extracts
1079 203 Features of a procedure for the mass-spectrometric analysis of the volatile products liberated in the heating of coals
1080 101 A mass-spectrometric investigation of the yield of volatile matter when coal is heated to 450-deg-C

SHMIDT, HJ
0678 186 Report on the MHD performance demonstration experiment for the period October 1976 to September 1977

SHMORGUNENKO, NS
0380 72 Process for the production of alumina from mineral component of solid fuels

SHMYAKIN, VN
0678 44 Low temperature combustion of solid fuels in restrained fluidized-beds

SHNAPER, BI
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin
0281 231 Influence of the oxidation of brown coal before extraction on the quality of the brown-coal wax and coal-alkali reagents
1079 221 A mathematical model for predicting the quality of the coal-alkali reagent at the Semenova Montan Wax Factory

SHOCK, DA
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

SHOEMAKER, HD
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 38 Influence of bituminous coal and overburden thermo-mechanical properties on subsidence associated with underground coal conversion
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SHOFFNER, JP
0277 35 Characterization of coal liquids

SHOJI, K
0680 53 The sticking temperature and adhesion force of slag droplets from four coals on oxidized mild steel

SHOMA, J
1081 60 Copolymerization of methylmethacrylate on a ball-milled surface of coal at 77 K

SHOOK, CA
0881 44 Pipeline flow of coarse coal slurries

0882 55 Computational approach for coal slurry pipelines

SHOPLAD, RC
0177 256 Proceedings of the third annual underground coal conversion symposium

SHOPOV, GK
1079 164 Binding properties of pitch from shale carbonization oil

SHORT, G
0681 189 Coal Technology '81, Vol. 5

SHORT, JC
0180 78 Coal Technology '80
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SHORT, WA
0582 14 Electrical equipment used in hazardous locations

SHOTT, JE
0381 105 Difference in the behavior of 200 X 0 Kentucky No. 9 and Illinois No. 6 coals in surface controlled beneficiation

SHOTTS, RQ
0478 87 Site selection and design for minimizing pollution from underground coal mining operations
1052 0 Influence of certain inorganic matter, fusian and dull-coal on the free-swelling-index of coal

SHOU, J
0280 72 Viscosity measurement of residual oil from H-coal process
0280 73 Reactivity of Kentucky 9 and 11 coals using a microautoclave
0580 56 Laboratories

SHOU, JK
0280 67 Precoat filtration of coal liquid feasibility study of bottom ash precoat
0280 79 Solid-liquid separation-filtration with bottom ash precoat
0280 90 Recovery of heavy coal-derived liquids by pressure fluid extraction
0280 332 The thermochemical effects of gas-coals in pyrolysis process
0677 20 Clean-coal combustion through coal washing and blending
1078 177 Microstructure studies of chemically desulfurized coals

SHOV, JK
0280 71 Bench scale ebullating bed-fluid dynamics

SHPIL'BERG, MB
0280 315 Thermal dissolution of combustible shales and coals

SHPIRT, MY
0178 368 Gasification of ash-rich coals and carbonaceous rocks with the complete utilization of the products formed
0278 184 Use of the mineral fraction from the regeneration of molybdenum compounds in the fuel hydrogenation process
0280 310 The forms of molybdenum compounds in the sludges from the coal liquefaction process
0379 92 Use of coal enrichment wastes of the Sakhalin basin
0380 72 Process for the production of alumina from mineral component of solid fuels
0380 136 Change in the phase composition of products of the oxidative thermal treatment of carbonaceous rocks during heating
0580 142 Basic principles of the classification of wastes from the mining and processing of coals
0678 247 Extraction of molybdenum from the fly-ash produced in the combustion of coal hydrogenation sludge
1077 84 Comprehensive utilization of the mineral components of coals

1078 158 Thermal properties of a porous filler based on powdered Ekibastuz-coal-rock
1079 132 Determining the nitrogen content in nitride-containing materials

SHPIRT, MYA
1079 155 Production of alumina concentrates from kaolinite-containing coal wastes

SHTUKARINA, SE
1079 145 Chromatographic determination of the coefficients of diffusion of oxygen into coal pores

SHU, MT
0182 42 A simple capacitance sensor for void fraction measurement in two-phase flow

SHUCK, R
0179 280 Kinetics of char burnout and ash vaporization in coal-fired MHD combustors

SHUCK, LZ
0175 35 A report on progress in underground coal gasification
0175 59 Instrumentation for in-situ coal gasification
0176 27 Method for in-situ gasification of a subterranean coal bed
0177 72 Stress response investigations related to in-situ gasification of coal
0177 150 Increasing the calorific value of gas produced by the in-situ combustion of coal
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SHUEN-CHEN, H
0281 16 Volatility of coal liquids at high temperatures and pressures

SHUGART, HH
0374 0 Coal utilization symposium - Focus on SO//2 emission control

SHUI, VH
0180 57 Hot gas cleanup by a confined-vortex scrubber

SHUL'MAN, NV
1081 208 The heats of sorption of methane by coals at pressures of up to 8.0 MPa

SHULL, HE
0179 335 Specifications and design of a pressurized laminar-flow isothermal reactor for studies of coal reactivity

SHULTS, WD
0676 16 Effects of trace contaminants from coal combustion. Proceedings of a workshop August 2 - 6, 1976, Knoxville, Tennessee

SHULTZ, EB
0164 7 Methane, Ethane, and Propane from American Oil-Shales by hydrogasification: Green-River-formation shale and shales of the Eastern United-States and New-Brunswick

SHULTZ, FG
0673 13 Hot sulfur removal from producer-gas

SHULTZ, JL
0178 402 Coal conversion: the role of the analyst
0277 144 Characterization of the heterocyclic compounds in coal liquefaction products. Part I: Nitrogen compounds
0278 108 Combined gas-chromatographic mass-spectrometric analyses of nitrogen bases in light oil from a coal liquefaction product
1077 51 Heteroatom species in coal liquefaction products

SHULYAKOVSKAYA, LV
0178 372 Influence of the treatment of a gas coal with mineral acids on its capacity for undergoing hydrogenation
0281 266 Hydrogenation of coal of the Talbulag deposit in the Mongolian People's Republic
0778 38 Evaluation of the quality of coals as a raw material for hydrogenation

SHUMEIKO, VP
1078 148 Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process

SHUMIATSKII, BY
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

SHUMYATSKY, BY
0678 185 Open-cycle magnetohydrodynamic electrical power generation

SHUSTIKOV, VI
0279 186 The question of the mechanism of the hydrogenolysis of thiophene

SHUVA, E
0178 358 Nonenergy coal utilization variants

SHVETS, TV
1078 156 Reduction of humic-acid-oxidates by lithium-aluminum-hydride in order to study their structure

SHVETSOV, GA
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

SHYU, H
1081 62 In-situ study of the decomposition of pyrite in an oxygen atmosphere

SHYU, HJ
0281 163 In-situ Moessbauer spectroscopic study of the behaviour of tin (II) chloride during coal hydrogenation

SICARDI, S
0282 123 Effect of liquid wetting on catalyst effectiveness in trickle-bed reactors

SICKLES, JE
0578 14 Atmospheric chemistry of potential emissions from fuel conversion facilities

SIDDALL, N
0479 131 Coalmining towards the 21st century

SIDDALL, RG
0480 171 The Bretby hydraulic arch cropper

SIDIK, SM
0681 14 Effect of sodium, potassium, magnesium, calcium, and chlorine on the high temperature corrosion of IN-100, U-700, IN-792, and MAR M-509

SIDLE, RC
0480 185 Long-term impacts of surface mining on streamflow

SIDOGIN, VP
1079 171 A study of the properties of plastic molded coal

SIE, ST
0279 154 Treating Fischer-Tropsch Reaction Products

SIEFERT, K
1079 90 Hydrogen-sulfide incorporation in coal precursors: Origins of organic-sulfur in coal

SIEG, RP
0180 145 Research needs for coal gasification and coal liquefaction

SIEGEL, HM
0173 12 Symposium papers, Clean fuels from coal

SIEGEL, MM
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 65 An R&D program for UCG in bituminous coals
0182 80 An assessment of underground coal gasification in bituminous coals
0182 97 Directional drilling as a means of creating gasification flow paths in underground coal gasification

SIEGEL, RD
0679 122 Preparing new source review applications for coal-fired power-plants

SIEJKO, J
0680 100 Method of production of cellular concrete

SIEMERS, P
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SIEMON, SR
0779 43 The physical structure of brown coal
1078 22 X-ray crystallography and brown-coal structure
1080 45 Colloidal structure of Victorian-Brown-Coal. 3. Examination by ultracentrifugation
1081 165 The nature and possible significance of particulate structure in alkali-treated brown coal

SIEMSSEN, JO
0681 189 Coal Technology '81, Vol. 5

SIEVER, R
1052 2 Second Conference on the origin and constitution of coal

SIGGIA, S
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

SIGLEO, AC
1080 42 Concentrations of elements in the National Bureau of Standards' bituminous and subbituminous coal standard reference materials

SIKAND, N
0178 389 Laboratory support for in situ gasification: Reaction kinetics

SIKKA, VK
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SIKONIA, JG
0280 203 The Aurabon process: New way to upgrade tars and heavy crudes
0580 6 New data for RCD Unibon

SIKORSKI, CF

0882 54 The effects of viscosity reducing chemical additives on slurry rheology and pipeline transport performance for various mineral slurries

SIKRI, AP
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 41 Development of in-situ processes for energy and fuels from coals
0178 81 Status of the DOE underground coal conversion program
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 96 Economic evaluation of underground coal gasification

SILBERMAN, D
0581 38 Crystalline components of stack-collected, size-fractionated coal fly ash
0679 104 Chemical studies of stack fly-ash from a coal-fired power-plant
1078 7 Physical and morphological studies of size-classified coal fly-ash
1079 106 Filtration studies with neutron-activated coal fly-ash
1079 109 Room-temperature dissolution of coal fly-ash for trace metal analysis by atomic-absorption spectrometry

SILBERNAGEL, BG
0179 141 Coal science: Basic research opportunities
1079 220 Magnetic resonance studies of labeled guest molecules in coal
1081 215 Heat capacity and NMR studies of water in coal pores

SILBERSTEIN, S
0579 22 Coal-conversion technologies, some health and environmental effects

SILLA, H
0281 7 Kinetics of donor-solvent liquefaction of bituminous coals in nonisothermal experiments

SILLIN, LF
1172 3 Symposium on energy, resources and the environment, Volume 3

SILVER, H
0475 9 First Symposium on Underground Mining, Volume I

SILVER, HF
0277 47 Effects of solvent characteristics on Wyodak coal liquefaction
0279 42 Chromatographic and spectrometric methods for the separation, characterization, and identification of alkylphenols in c coal-derived solvents
0279 113 The effect of solvent on solvent refined coal denitrification
0281 44 Estimation of alkylphenol content in coal recycle solvents
0282 13 Hydroliquefaction of Wyodak coal using bottoms recycle
0282 23 Upgrading of recycle solvent used in the direct liquefaction of Wyodak coal
0282 55 Separation of solvent-refined coal into compound-class fractions
0282 87 Effect of Wyoming coal properties on direct-liquefaction reactivity

SILVER, MS
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SILVER, RS
0280 351 Investigation of the liquefaction of partially dried and oxidized coals

SILVERMAN, J
0178 79 Coal conversion by flash hydropyrolysis and hydrogasification
0179 255 Flash hydropyrolysis for high-value products
0180 255 The CS/R advanced SNG hydrogasification process

SILVERSTON, PL

0381 107 Chemical comminution of Nova Scotia coals

SILVESTON, PL
0282 170 Three phase reactors: trickle bed, slurry, bubble column - theory, scale up, design
1080 70 Change of pore properties during carbonization of coking coal

SILVESTRI, AJ
0174 60 Conversion of synthesis-gas to hydrocarbon mixtures
0178 73 Novel technology for conversion of methanol and synthesis-gas to hydrocarbons

SIM, F
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979

SIMAN-TOV, M
0679 138 Technology assessment for an atmospheric fluidized-bed combustion demonstration plant
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SIMBECK, D
0276 98 Coal liquefaction design practices manual

SIMBECK, DR
0179 193 SNG plant by-products need attention
0180 78 Coal Technology '80
0181 219 Coal Technology '81, Vol. 4
0182 48 Coal gasification - an overview
0281 248 Coal liquefaction: direct versus indirect - making a choice
0282 50 Direct versus indirect coal liquefaction
0382 21 Coal cleaning for synfuel feedstocks

SIMCOE, EJ
0380 50 Characterization of coal refuse
1078 182 Uranium in coal and carbonaceous rocks in the United States and Canada: an annotated bibliography

SIMEONS, C
1178 32 Coal: Its role in tomorrow's technology. A sourcebook on global coal resources

SIMINSKI, VJ
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
0582 0 Evaluation of a cyclone dust collector for high-temperature, high-pressure particulate control

SIMKOVICH, G
0378 51 Inert-marker studies during high-temperature formation of FeS//2 from FeS//1 + x
1080 77 Production of pyrrhotites by pyrite reduction

SIMKOVITS, HR
1177 25 Control and dynamic analysis of a wind energy conversion and storage system operating at constant velocity ratio

SIMM, I
1080 72 Straight-chain alkyl chain lengths in petroleum asphaltenes

SIMMLER, JJ
0574 34 Acid strip mine lake recovery

SIMMON, PB
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

SIMMONS, L
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SIMMONS, GW
0177 268 Fracture mechanics and surface chemistry studies of steels for coal gasification systems
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 215 Fracture mechanics and surface chemistry studies of steels for coal gasification systems
1078 48 Catalytic synthesis of methanol from carbon monoxide/hydrogen gas

SIMMONS, JA
0679 168 Reliability analysis of the Georgetown University atmospheric fluidized bed combustor - final report

SIMMONS, JE
0681 96 Tennessee valley authority's atmospheric fluidized bed combustion projects

SIMNICK, JJ
0281 12 Solubilities of hydrogen and methane in coal liquids

SIMON, A
1081 223 Determination of surface and bulk oxidation of coals by Fourier Transform Infrared Spectroscopy using a photoacousitc detector

SIMON, E
0676 31 Fluidization technology, volume 1

SIMON, DW
0163 0 Underground gasification of coal, 1945 - 60: A bibliography

SIMON, JJ
0177 233 The test program for low-Btu gasification of coal for electric-power generation. Final report, R&D Task 14 (Phase 1)

SIMON, MF
1177 18 Theoretical method to determine monthly efficiency of flat plate solar-collectors
1177 19 Solar-energy and domestic heating needs

SIMONE, AA
0276 27 The application of Lummus Antisolvent deashing technology to a Solvent-Refined-Coal solution
0278 176 Catalyst withdrawal and addition in a coal liquefaction process
0279 124 The C-E Lummus clean fuel from coal process
0280 138 Gravity settling process
0280 145 Dual delayed coking of coal liquefaction product

SIMONETTI, F
0881 37 Coal transportation: an analysis of cost and energy requirements

SIMONS, GA
0178 266 Modeling of coal gasification for fuel-cell utilization. Final report, May 1976 - June 1978
0179 36 Coal processing for fuel-cell application. Task report - Task V. Modeling of wet-gas cleanup
0179 55 Coal processing for fuel cell utilization: Task VIII. H//2S removal by calcium-based sorbents
0179 156 Char gasification: 1. Transport Model

0179 157 Char gasification -- 2. Oxidation results
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices
0679 89 Structure of coal char- 1. Pore branching
0679 90 Structure of coal char - 2. Pore combination

SIMONS, LH
0279 208 The dissolution of lignite in anhydrous liquid ammonia

SIMONS, PW
0881 33 The economics of positive displacement slurry pumps

SIMONYI, T
1078 182 Uranium in coal and carbonaceous rocks in the United States and Canada: an annotated bibliography

SIMPER, KV
0476 29 Second Institute on Coal Mine Health and Safety

SIMPKIN, AJ
0177 30 High Mass Flux Coal Gasifier: Phase 1, Final Report
0179 53 High mass flux coal gasifier. Final report, Phase II
0180 309 High mass flux coal gasification

SIMPSON, D
0482 54 Chainless haulage - ten years' experience

SIMPSON, P
0478 216 Kellingley Colliery performance

SIMPSON, CA
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0279 39 Analytical studies for the H-coal process
0279 134 Upgrading of coal liquids for use as power generation fuels
1078 130 Analytical characterization of solvent-refined-coals comparison with petroleum residua

SIMPSON, CH
0680 112 Process for reducing the sulfur content of coal

SIMPSON, DN
0481 68 Underground staple shaft bunkers

SIMPSON, FW
0381 84 Thermal oxidative degradation of coal as a route to sulfur functionality: an initial study

SIMPSON, RA
0477 77 Application of cement-grout to coal mine roof-bolting
1169 1 Coal

SIMPSON, TA
0478 87 Site selection and design for minimizing pollution from underground coal mining operations

SIMPSON, WW
0180 78 Coal Technology '80

SIMS, L
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

SIMS, AV
0177 249 High-temperature gas treating process. Final report, June 1976 - July 1977

SIMS, CT
0178 318 High temperature gas-turbine engine component materials testing program. Task 1. Annual report for 1977
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0278 199 High temperature gas turbine engine component materials testing program, task 1, 'Fireside 1', final report.

SIMS, RC
0581 11 Land treatment of coal gasification wastes

SIN'KOVA, LA
1079 132 Determining the nitrogen content in nitride-containing materials
1079 155 Production of alumina concentrates from kaolinite-containing coal wastes

SINCALI, AJ
0281 263 Hydrodynamics of coal-liquefaction dissolver configurations

SINDT, CF
0175 27 Selected topics on hydrogen-fuel

SINEL'NIKOV, LZ
1081 130 The strength characteristics of coke fillers of carbonaceous materials

SINES, LR
0681 27 New observations on the aqueous sodium dichromate oxidation of bituminous and lignite coals

SINFELT, JH
1080 129 EXAFS studies of supported metal catalysts

SINGER, F
1172 6 Symposium on energy, resources and the environment, Volume 2

SINGER, JM
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 115 Studies of in-situ combustion in a surface trench facility
0481 96 Smoke characteristics of coal-lined tunnel fires
1081 153 Thermophysical properties of Pittsburgh seam coal

SINGER, PC
0579 83 Treatability and assessment of coal conversion wastewaters, phase 1
0580 168 An evaluation of the biological treatability of coal conversion wastewater

SINGERMAN, GM
0282 54 Gasoline extenders/octane improvers from coal liquids

SINGH, B
0479 169 Investigation into strata control failures at caved longwall faces in India and a new approach for support planning to avoid such occurences

SINGH, G
0679 98 Economic feasibility of pressurized fluidized-bed combustor power-plant

SINGH, R
0680 238 An appraisal of the present status of direct reduction processes using non-coking coal

SINGH, S
0177 106 Role of producer-gas in replacing fuel-oil
0178 150 Chemicals from coal via gasification and hydrogenation
0178 160 Coal gasification for dual cycle power generation

SINGH, AP
0180 240 A study on fusion behaviour of coal ashes for gasification of coal

SINGH, BB
0179 247 Conversion of coal-based methanol to ethylene and propylene a viable alternative
0281 68 Olefins from coal via methanol

SINGH, CP
0282 121 Liquefaction of coal by SRC-II process Part I: A new kinetic model
0282 122 Liquefaction of coal by SRC-II process Part II: Simulation of an SRC-II recycle system

SINGH, DP
0477 69 Long-term strength of rock
0779 20 Influence of physico-mechanical properties and geological discontinuities on rock-blasting

SINGH, JG
0477 152 High capacity underground coal handling system for moderately thick and inclined coal seams
0479 152 Bord & pillar mining with hydraulic sandstowing: an improved plan

SINGH, JJ
0579 67 Measurement techniques for trace metals in coal-plant effluents - A brief review
0580 0 Environmental and climatic impact of coal utilization

SINGH, MM
0478 291 Technical Assessment of Patents Related to Underground Coal mine Haulage: Final report
0478 292 Technical Assessment of Patents related to underground coal mine haulage: Appendix I Power driven conveyors

SINGH, PP
0678 51 Utilization of coal-derived liquid fuels in a combustion turbine engine

SINGH, RN
0180 55 Corrosion behavior of metallic materials in the reducing environments characteristic of a coal-fired MHD generator
0479 113 Design and stability of pillars in longwall mining
0479 148 Evaluation of the design requirements and performance of gate roadways
0679 38 Evaluation of ceramic refractories for corrosion behavior by molten slag-seed mixture of a coal-fired open-cycle MHD system

SINGH, SP
0180 76 Costs of environmental control processes for low Btu coal gasification plants
0180 272 Thermodynamic analysis of coal gasification processes
0181 199 Environmental implications of small fixed-bed gasifiers for industry
0278 136 Scoping study on two flash-hydropyrolysis processes
0281 265 Liquefaction technology assessment - Phase 1: Indirect liquefaction of coal to methanol and gasoline using available technology
0281 329 Technical and economic evaluation of selected coal liquefaction processes. Phase 0. Preliminary screening

evaluations
0281 332 The impact of environmental control costs on an indirect coal liquefaction process
0378 40 Advances in coal beneficiation
0379 0 Survey and evaluation of current and potential coal beneficiation processes
0379 43 Advances in coal beneficiation
0580 128 Costs and technical characteristics of environmental control processes for low-Btu coal gasification plants
0581 7 Potential costs of complying with emission regulations for an indirect coal liquefaction process

SINGLETON, AH
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0181 16 Status and test plan for the gasification of steeply dipping coal beds - Rawlins II
0182 38 Underground coal gasification
0182 102 Status of the Rawlins UCG-SDB program

SINGLETON, FL
0578 69 Effects of coal-ash basin-effluent and thermal loading on bacterial populations of flowing streams
1078 36 Responses of heterotrophic bacterial populations to pH changes in coal-ash effluent

SINHA, J
0482 107 Atomic absorption spectrophotometric and x-ray studies of respirable dusts in Indian coal mines

SINHA, AK
0380 68 A process for the demineralisation of coals

SINHA, HN
0680 182 Calcination of bauxite pisolites and phosphate rock using a coal-fired fluidized bed

SINHA, KA
0480 208 Challenges in Makum coalfield of North Eastern Region

SINHA, KC
0881 16 A regional railroad network optimization model for coal transportation

SINHA, NK
0178 90 Pollutions arising from coal gasification and carbonization and their control
0178 361 Technique of heat supply in coal gasification and carbonization
1078 136 Chemicals from coal

SINHA, PK
0680 17 Prediction of the burning rate of coal in fluidized-bed combustion

SINHAMAHAPATRA, PK
1078 104 Differential thermal analysis: A parameter to the study of minerals and catalysis

SINNETT, CE
0178 177 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual report, June 1977 - May 1978
0280 172 Make petrochemical feedstocks with coal liquefaction
0280 185 SRC-II is a promising petrochem feedstock source
0281 355 Chemicals from coal

SINOR, JE
0179 174 Reconsider coal conversion processing
0180 78 Coal Technology '80

SIRE, DL
0281 28 Coal hydrogenation and hydrocracking using a metal chloride-gaseous HCl catalyst system

SIROHI, VP
0178 285 Fixed-bed methanation processes. Final report

SIROIS, L
0481 43 SPOC project: status and prospects after one year of joint effort

SISHTLA, C
0181 93 Void-gas stripping in standpipes

SISKIND, B
0581 80 Handling of combustion and emission-abatement wastes from coal-fired power plants: Implications for fish and wildlife resources

SISKIND, DE
0477 49 Structure vibrations from blast-produced-noise
0479 82 Keep your blasting under control
0479 212 Ground vibration technology pertaning to OSM regulations

SISTINO, JJ
0679 6 Analytical studies of oxides of nitrogen decomposition in the radiant boiler of an open-cycle MHD power-plant

SITES, JR
1073 11 Trace impurities in fuels by isotope dilution mass-spectrometry

SITNAI, O
0680 122 Oxidative rapid pyrolysis of coal in a dilute phase transport reactor

SITNIKOV, LV
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin

SITTE, W
0179 297 Overview of the laboratory work in Aachen in the field of underground coal gasification

SITTHIPHONG, N
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SIVARAMAN, A
0282 164 Investigation of vapor pressures and heats of vaporization of condensed aromatic compounds at elevated temperatures

SIVASUBRAMANIAN, R
0277 34 Effect of catalyst support properties on hydrodenitrogenation of a coal liquid
0279 103 Process and catalyst needs for hydrodenitrogenaton
0280 301 Catalyst deactivation in hydrotreating coal-derived liquids
0280 343 Gas/slurry flow in coal liquefaction processes (fluid dynamics in 3-phase flow column), Qtr Tech Prog Rep - January 1-March 31, 1980
0281 182 Experimental simulation of solids distribution in coal liquefaction dissolvers
1079 55 Nitrogen removal from a coal-derived liquid 1. Effect of catalyst support properties

SIVERTSON, L
1180 13 Competition and Canadian coal prices in the Japanese coking coal market

SIVIE, RJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SIWERSSON, OL
0680 97 Composition comprising a pulverized purified substance, water and a dispersing agent, and a method for preparing the composition

SIWIEC, A
0381 108 MHD and paramagnetic liquid separation of coal

SIZONENKO, VS
1080 170 Photoelectric effect in coals

SIZOV, MN
0380 152 Separation of bases from tar at the coking plant of the Nizhny Tagil integrated iron and steel works

SIZOVA, EM
1079 172 Solvent regeneration in production of individual compounds from coal tar
1080 131 Modification of coal anticorrosion compounds

SKAFA, PV
0175 53 Underground gasification of coal

SKAMSER, R
0178 213 Coal gasification, commercial concepts, gas cost guidelines, Revision 1, Final Report

SKAPERDAS, GT
0172 9 Single Vessel Operation
0173 12 Symposium papers, Clean fuels from coal
0174 12 Coal processing technology

SKEA, JF
0681 160 Switching from oil to coal firing for steam raising: A case study at a large industrial site

SKEDGELL, DA
0180 78 Coal Technology '80

SKELDING, ME
0479 103 Cadley hill fire
0480 154 The design and installation of a steel cord belt in the surface drift at Cadley Hill Colliery

SKELLEY, W
0679 191 Bed expansion and attrition studies in a coal-fired fluidized bed
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SKELLY, WA
0477 61 Coal mine pillar strength and deformation prediction through laboratory sample testing

SKEMA, VW
0777 20 Analyses and measured sections of Pennsylvania bituminous coals, Part III

SKIDMORE, AJ
0680 63 Composition and microstructure of a furnace ash deposit from a coal-fired utility boiler

SKIDMORE, DR
0275 19 Agglomeration as a factor in the non-catalytic liquefaction of coal
0276 2 Chemical Comminution of Coal
0276 3 Liquefaction Study of Several Coals and a concept for underground liquefaction
0277 69 Fundamentals of coal liquefaction

0280 364 Modeling of temperature gradients and heat flux in coal seams during underground liquefaction processing

SKIENS, WE
0281 257 Application of carbon-13, hydrogen-2, hydrogen-1, NMR and GPC to the study of structural evolution of subbituminous coal in tetralin at 427-deg-C
1078 59 Side reactions in the reductive alkylation of low rank coal

SKINNER, CS
0479 127 How to implement mine illumination
0479 205 Focusing on the tough illumination problems underground

SKINNER, DF
0182 62 Method for initiating an underground combustion process

SKINNER, RW
0277 75 Catalytic hydroprocessing of solvent-refined-coal
0278 106 Hydroprocess solvent-refined-coal
0280 318 Approach to steady-state solvent composition in the SRC-I coal liquefaction process
0281 196 Experimental support for coal reactor design for the SRC-I demonstration plant

SKLENAR, V
1080 113 Analysis of coal asphaltenes by carbon-13 Fournier transform nuclear magnetic resonance spectrometry

SKLYAR, MG
1079 199 Data content of spectrographic coal testing methods
1080 160 The interaction of a coal mass undergoing coking with refractory materials

SKLYAR, PT
1079 246 Ash analyzer for coal testing

SKNAR, VP
0379 70 Separation of coal with respect to ash content on screens

SKOCZYNSKI, W
0482 4 New technology of mining inclined seams

SKOGERBOE, GV
0474 3 Fifth Symposium on Coal Mine Drainage Research

SKOGERBOE, RK
0474 3 Fifth Symposium on Coal Mine Drainage Research
0579 108 Environmental effects of Western coal surface mining. Part III: The water quality of Trout Creek, Colorado
0580 117 Environmental effects of Western coal combustion: Part III - The water quality of Rosebud-Creek, Montana

SKOLNIK, E
0380 90 Heavy medium cleaning of -28 mesh coal

SKONBERG, ER
0182 61 Horizontal drilling for underground coal gasification

SKOPP, A
0673 2 A regenerative limestone process for fluidized-bed coal combustion and desulfurization
0673 26 Design of fluidized-bed miniplant

SKOV, A
0180 237 Catalytic aspects of high temperature methanation

SKOV, ER
0681 189 Coal Technology '81, Vol. 5

SKOW, W
0475 3 Speeding coal mining operations by recovering and utilizing methane from coal beds

SKOW, ML
0477 95 Third Symposium on Underground Mining

SKOWRONSK, I
0280 11 Study of the products of coal hydrogenation and deuteration by electron-paramagnetic-resonance

SKOWRONSKI, RP
0278 90 Deuterium tracer method for investigating the chemistry of coal liquefaction
0278 147 Deuterium-tracer-method for investigating the chemistry of coal liquefaction. Annual technical progress report, July 1976 - June 1977
0280 270 Molten alkali metal hydroxide catalyzed coal liquefaction - Final Report

SKRILEC, M
1081 77 Background correction in quantitative micelle-enhanced room-temperature phosphorescence via selective bimolecular quenching

SKRIPCHENKO, GB
0177 214 Kinetics of the thermal decarboxylation of brown-coal
0178 365 Substance composition, structure and properties of coals in connection with their processing into liquid and gaseous fuels
0278 197 Physicochemical characteristics of gas coals as a raw material for obtaining synthetic liquid fuel
0679 121 The structural and chemical transformations of brown coal in three-stage rapid heating
1079 155 Production of alumina concentrates from kaolinite-containing coal wastes
1079 187 Use of derivatography for evaluating the activity in relation to atmospheric oxygen of a brown-coal and the products of its processing
1079 242 Transformations of some binders during high-temperature treatment
1080 207 Degree of oxidation of Irsha-Borodino brown coal and reactivity of the products of its thermal treatment
1081 131 Evaluation of the suitability of coals for the production of synthetic fuel

SKROVANEK, T
0179 288 European contribution to heat exchanger design/performance HTFS research and computer programs, final report, July 1, 1978 - September 30, 1979

SKUJINS, JJ
0579 100 Utilization of legumes in the revegetation of environmentally stressed arid mine spoils

SKULSKI, JZ
1070 4 Chemical analyses of the ash of Canadian coals

SKVORTSOVA, VN
0379 84 An investigation of the kinetics of dewatering of coal fines in a centrifugal field

SLACK, WA
0579 2 Biological treatability of gasifier wastewater

SLADEK, TA
0379 44 Coal beneficiation with magnetic fluids
1078 21 Ethanol motor-fuels and gasohol

SLAGLE, L
0580 57 Office for informational services and technical liaison

SLAGLE, DJ
0278 51 Settling of coal in coal-oil slurries
0380 16 Kinetics of oxydesulfurization of Upper-Freeport coal

SLAGORSKY, ZC
0281 99 Outlook for alternative liquid fuels in Canada - an economic analysis
0282 192 Alternative transportation fuels in Canada: an economic analysis
1180 11 Alternative future supplies of oil in Canada and their costs

SLATER, GE
0181 17 Rawlins test #1 cavity definition study

SLAUGHTER, W
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SLAUGHTER, GM
0278 163 Assessment of materials technology of pressure vessels and piping for coal conversion systems

SLAUGHTER, WW
0680 239 Assessment of hot gas clean-up systems and turbine erosion/corrosion problems PFBC combined cycle systems

SLAVINSKII, VM
1079 246 Ash analyzer for coal testing

SLEEMAN, J
0477 128 The relevance of borehole and bore core evaluation to the design of underground coal mines

SLEEVI, PS
1079 249 Characterization of organic functional groups in model systems for coaly matter employing 19//F NMR

SLEGEIR, WA
0180 78 Coal Technology '80

SLIPCHENKO, ES
0180 261 Economic indices of the production and efficiency of the use of synthetic fuel from coal

SLIVINSKAYA, II
1079 215 The kinetics of the change in yield of residual volatile matter during thermal processing of Irsha-Borodino coal in swirl chambers

SLOAN, DG
0881 30 A rheology-based correlation for minimum deposition velocities

SLOBODSKOI, A
0379 76 A study of the influence of the high-temperature treatment of gas coal on the properties of the solid residue obtained

SLOMKA, B
0282 21 A kinetic study of the supercritical toluene extraction of coal at 9.8 MPa

SLONE, RE
0477 93 Third Institute on Coal Mine Health and Safety
0477 95 Third Symposium on Underground Mining

SLONINA, JP

0676 32 Fluidization technology, volume 2

SLONNEGER, BE
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SLYUSAR, IP
1078 131 Continuous coal carbonization in a pressurized-travelling-bed

SMALL, M
0881 44 Pipeline flow of coarse coal slurries
0881 49 Flow of coarse coal in 150, 250 and 500 mm pipelines
0882 2 Slurry pipeline development centre at Saskatoon

SMALL, AM
1080 42 Concentrations of elements in the National Bureau of Standards' bituminous and subbituminous coal standard reference materials

SMALL, GJ
1080 92 Fluorescence line narrowing spectrometry in glasses for direct determination of polycyclic aromatic hydrocarbons in solvent-refined coal

SMALL, JA
0677 17 Single-particle analysis of the ash from the Dickerson coal-fired power plant

SMART, BG
0482 71 Conclusions from strata mechanics investigations conducted by Cardiff and Strathclyde Universities at longwall faces

SMART, GD
0482 73 The re-use of gateroads serving retreat faces at Betws Colliery

SMARTT, HB
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SMEGGIL, JG
0677 97 The effect of Na/Cl on the Na//2/S/O//4 induced hot corrosion of Ni/Al

SMELSER, S
0178 412 Economics of fuel gas from coal - an update including the British Gas Corporation's slagging gasifier, Final Report - May 1978
0180 195 Entrained gasification combined-cycle control study, Volume 1: Summary of results and conclusions

SMELSER, SC
0180 288 Control strategy for gasification combined-cycle power plants

SMELTZER, CE
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

SMELYANSKII, AZ
0379 73 Substance composition and thermogravimetric investigation of the classes of a coal charge
0379 100 Caking evaluation of blends crushed for commercial carbonization

SMERNOFF, B
0275 14 Issues relative to the development and commercialization of a coal-derived synthetic-liquids industry

SMETANNIKOV, BN
0278 47 Thermal processing of sludges from the coal liquefaction process
0578 97 Protection of the environment in the coal liquefaction process

SMIDT, J
1082 15 Proton dynamic polarization and proton-carbon cross-polarization in coal

SMIL, V
1181 19 Energy development in China - The need for a coherent policy

SMILEY, CH
0479 126 Keeping your engines cool to keep availability up
0881 45 How to lighten trucks to haul bigger payloads

SMILEY, GT
0278 226 Chemical changes in nitrogenous materials during hydrocracking of Athabasca bitumen

SMIRNOV, RN
0779 29 Polymeric structure of coals

SMIRNOV, YE
0679 165 The question of the interconnection of the reactivity of carbonaceous materials with their crystal structure

SMIRNOVA, MB
0781 35 The construction of a scale of the coalification transformation of fossilized organic matter on the basis of its chemical and substance composition

SMIRNOVA, ND
1079 234 Sulfonation of the kerogen of Kuckersite shale

SMIRNOVA, TS
0281 216 Production of synthetic liquid fuel from Kansk-Achinsk coal
0378 74 Thermal preparation of coals using vortex chambers
1079 215 The kinetics of the change in yield of residual volatile matter during thermal processing of Irsha-Borodino coal in swirl chambers

SMIT, J
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SMIT, W
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SMITH, B
0381 107 Chemical comminution of Nova Scotia coals
0580 57 Office for informational services and technical liaison

SMITH, D
0178 37 Identification of organic constituents in aqueous effluents from energy-related processes.
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SMITH, I
0580 77 Nitrogen oxides from coal combustion - environmental effects

SMITH, M
0181 11 The use of non-fossil derived hydrogen in coal conversion process
0181 106 The use of non-fossil derived hydrogen: A possible role for coal conversion
0181 236 Coal gasification for combined cycle power generation: a general simulation method

SMITH, R
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report
0480 59 Establishing a world's record for continuous miner production

SMITH, S
1079 258 Novel approaches to a study of the fundamental organic chemistry of coal, Final report, September 1, 1977 - September 1, 1979

SMITH, W
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SMITH, AC
0280 335 Reducing viscosity of coal liquefaction products with additives

SMITH, AK
0281 186 Surface-supported metal cluster carbonyls. Chemisorption, decomposition and reactivity of Os//3(CO)//12, H//2Os(CO)//10 and Os//6(CO)//18 supported on silica and alumina and the investigation of the Fischer-Tropsch catalysis with these systems

SMITH, BE
0282 155 Apparent enhancement of coal conversions using cresol - tetralin solvents
0777 22 Geology and mineral resources of Washington-County, Ohio

SMITH, CA
0281 26 Application of methylation to the separation of coal extracts
1082 17 Estimation of oxygen group concentrations in coal extracts by nuclear magnetic resonance spectrometry

SMITH, CB
0178 272 Coal processing technology, Volume IV
0277 27 Evaluation of a commercial-scale hydrocarbonization process to produce clean-char, oil and pipeline-gas from coal
0277 32 Hydrocarbonization process evaluation report, Volume II, Evaluation of process feasibility

SMITH, CD
0379 103 Otisca process goes on line

SMITH, CJ
0175 61 Coal agglomeration and conversion symposium

SMITH, CL
0881 48 Coal Technology '81, Vol. 2

SMITH, DF
0379 49 Coal preparation plant. Electrical control

SMITH, DJ
0882 30 Maintenance of coal slurry dewatering equipment and the application of a Predix diagnostic system

SMITH, DM
0781 33 A new technique for determining the methane content of coal

SMITH, DN
0281 202 Thermal dispersion and heat transfer in nonisothermal bubble columns

SMITH, DW
0682 51 Prediction of boiler fouling by lignite ash

SMITH, EL
0380 62 Process for beneficiation of non-sulfide iron-free ores
0380 99 Process for beneficiation of phosphate and iron ores

SMITH, EW
0277 129 Process for increasing the fuel yield of coal liquefaction products by extraction asphaltenes, resins and aromatic compounds from said coal liquefaction products
0778 30 Coal inventory survey: onshore
0976 1 Coal inventory survey

SMITH, FA
0176 30 Upgrading synthetic-oils boiling above gasoline boiling material

SMITH, FT
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SMITH, GA
0381 57 Coal cleaning

SMITH, GC
1080 37 Coalification paths of exinite, vitrinite and inertinite

SMITH, GP
0281 230 Low-temperature hydrogen transfer and cracking catalysis in molten SbCl//3-AlCl//3

SMITH, GR
0178 272 Coal processing technology, Volume IV
0277 78 Studies on the filtration of liquefied coal in a rotary leaf pressure precoat filter

SMITH, GV
0179 242 Mossbauer studies of iron in Lurgi gasification ashes and power plant fly and bottom ash
0279 47 Calibration standard for X-ray-diffraction analyses of coal liquefaction residues: Moessbauer spectra of synthetic pyrrhotite
1078 0 Moessbauer-spectroscopic investigation of iron species in coal
1080 31 Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal-conversion processes
1080 133 Moessbauer studies of illites and heat-treated illite as related to coal-conversion processes

SMITH, GW
0178 272 Coal processing technology, Volume IV
0182 63 Cleanup of UCG product gas
0182 64 Underground coal gasification (UCG) - gas to methanol and MTG gasoline an economic and sensitivity study
0381 96 Interfacial phenomena in coal flotation systems
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0580 20 Hydration enhanced sulfation of limestone and dolomite in the fluidized-bed combustion of coal
0677 66 Fluidized-bed regeneration of sulfated dolomite from a coal-fired FBC process by reductive decomposition
0678 88 Testing of a pulsed L-valve feeder for use in fluidized-bed combustion and sorbent regeneration units
0678 133 Regeneration of sulfated dolomite by reductive decomposition with coal in a fluidized-bed-reactor
0678 134 High-temperature fluidization and agglomeration characteristics of limestone and coal-ash particle systems
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978

0678 200 Evaluation of on-line light-scattering optical particle analyzers for measurements at high temperature and pressure
0680 153 Process costs and flowsheets, bed defluidization characteristics, stone reactivity changes and attrition losses for a regenerative fluidized-bed combustion process
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0680 237 Sorbent utilization prediction methodology: sulfur control in fluidized-bed combustors

SMITH, HD
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 119 The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels
0678 236 Electrochemical corrosion of MHD-electrodes in slags

SMITH, IH
0176 70 Coal conversion technology

SMITH, IM
0582 8 Carbon dioxide - emissions and effects

SMITH, IW
0180 133 Flash pyrolysis of coals: comparison of results from 1 g/h and 20 kg/h reactors
0181 219 Coal Technology '81, Vol. 4
0270 6 Fluidizing feeders for providing fine particles at low, stable flows
0280 225 Flash pyrolysis of coals: behaviour of three coals in a 20 kg/hr fluidized-bed pyrolyser
0280 253 Conversion of coal to liquid products by flash pyrolysis
0674 9 The reactivity of a porous brown coal char to oxygen between 630 and 1812-deg-K
0679 60 Role of fuel reactivity in fluidized-bed combustion
0680 18 The development of flash pyrolysis in Australia

SMITH, JC
1177 14 The battery energy storage test (best) facility: Its purposes and description

SMITH, JE
0177 126 Gravity flow rate of solids through orifices and pipes

SMITH, JF
0479 44 Hydraulic drilling equipment

SMITH, JG
0479 189 Electromagnetic properties of coal mine strata

SMITH, JH
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0478 225 Can technology fill the gap? Mechanical engineering
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SMITH, JL
0580 157 Transplanting native vegetation

SMITH, JM

0282 123 Effect of liquid wetting on catalyst effectiveness in trickle-bed reactors
0282 170 Three phase reactors: trickle bed, slurry, bubble column - theory, scale up, design
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0679 5 Performance optimization of an MHD generator with physical constraints

SMITH, JW
0480 55 An isotopic study of the role of carbon dioxide in outbursts in coal mines
0678 154 Evaluation of a pressurized fluidized-bed combustion (PFBC) combined-cycle power-plant conceptual design. Final report. Volume II. Commercial-plant design description and economic analysis, Subtask 1.2
0678 254 Evaluation of coal-fired fluid bed combined cycle power plant
0679 144 B&W/EPRI fluidized bed development program
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 222 6 X 6 fluidized-bed development facility: a status report
0781 26 The effect of maturation on the isotopic composition of fossil fuels
0878 0 Haulage technology increases low-seam output by 50P.

SMITH, KA
1080 85 Dihydroaromatic structure of Illinois No. 6 Monterey coal
1080 115 Chemical structure of Wyodak coal

SMITH, MF
0878 15 Materials handling by slurry pipelines, Citations from the NTIS Data base
0878 16 Materials handling by slurry pipelines, Citations from the Engineering Index Data Base

SMITH, MJ
0182 110 A baseload gas turbine to meet utility requirements for reliability and availability
0879 32 Steam engine analysis - final technical report

SMITH, MR
0579 86 Coal conversion control technology, Volume 1. Environmental regulations liquid effluents

SMITH, NB
0580 190 Flue gas desulfurization wastes and fly ash disposal for Spurlock Station of East Kentucky Power

SMITH, NK
0280 326 Thermodynamic properties of materials derived from coal liquefaction

SMITH, NL
0281 199 Development of two stage coal liquefaction using a first stage disposable catalyst with second stage hydrotreatment

SMITH, PA
0381 94 Use of coal cleaning for compliance with sulfur dioxide emission regulations

SMITH, PJ
0179 300 Theoretical modeling of coal and gas fired turbulent combustion and gasification processes - dissertation
0179 325 Mixing and kinetic processes in pulverized coal combustors - Volume 2: User's manual for a computer program for 1-dimensional coal combustion or gasification (1-DICOG)
0180 36 One-dimensional model for pulverized coal combustion and gasification
0180 80 Mixing and gasification of coal in entrained flow systems. Final report for May 1, 1977 - October 31, 1979
0681 24 Model for pulverized coal-fired reactors

SMITH, RD
0277 37 Pilot plant study of conversion of coal to low sulfur fuel
0377 56 Hydrodesulfurization of coals
0579 28 Characterization and formation of submicron particles in coal-fired plants

0580 96 Atmospheric trace element pollutants from coal combustion
0677 141 Coal feeding and pneumatic transport
0680 59 Trace element chemistry of coal during combustion and the emissions from coal-fired power-plants
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
1080 39 Volatility of fly ash and coal

SMITH, RH
0277 15 Denitrogenation of Syncrude
0380 89 Inhibiting spontaneous combustion of coal
0678 225 Inhibiting spontaneous combustion of coal char
0680 113 Process for reducing sulfur contaminant emissions from burning coal or lignite that contains sulfur

SMITH, RJ
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SMITH, RM
0476 21 Fourth Symposium on surface-mining and reclamation

SMITH, RR
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SMITH, RS
0677 33 High temperature coal and slurry combustor according to a one-dimensional flow model
0677 237 An analysis of a high-temperature coal combustor according to a one-dimensional flow model
0679 14 Combustion of coal particles in wall-burning swirl-combustors
0679 177 Wall combustion in high-swirl combustors

SMITH, SE
0681 77 DTGA combustion of coals in the Exxon coal library
1080 225 Coal characterization research: sample selection, preparation, and analyses

SMITH, SL
1081 19 Compositional studies of coal tar by capillary gas chromatography/mass spectrometry

SMITH, WB
0479 40 BWE and shiftable conveyor system at work in Washington

SMITH, WE
0579 42 New land uses created by surface mining

SMITH, WH
0976 0 Coal Exploration

SMITH, WM
0477 43 Acid-mine-drainage: The problem and the solution
1078 71 Analysis of twenty three West-Virginia coals

SMITHSON, A
0481 62 Machinery developments in British coal mines

SMITHSON, GR
0574 22 Weighing environmental costs and benefits
0676 32 Fluidization technology, volume 2

SMITS, LJ
0976 0 Coal Exploration

SMOL'YANINO, VS
0179 241 Effect of impurities on synthesis from carbon-monoxide and water-vapor

SMOLENSKI, JV
0177 251 Environmental considerations for low-Btu gasification of coal for electric-power generation

SMOLIK, GR
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SMOOT, LD
0176 54 Mathematical modeling of pulverized coal combustors and entrained gasifiers
0177 107 Mixing and gasification of coal in entrained-flow systems, Final Report, Nov. 1974 - April 1977
0178 10 Cold flow mixing rate data for pulverized coal reactors
0178 272 Coal processing technology, Volume IV
0179 325 Mixing and kinetic processes in pulverized coal combustors - Volume 2: User's manual for a computer program for 1-dimensional coal combustion or gasification (1-DICOG)
0180 36 One-dimensional model for pulverized coal combustion and gasification
0180 80 Mixing and gasification of coal in entrained flow systems. Final report for May 1, 1977 - October 31, 1979
0677 54 Propagation of laminar pulverized coal-air flames
0678 106 Cold flow mixing rates with recirculation for pulverized-coal-reactors
0680 41 Rate measurements in a laboratory-scale pulverized coal combustor
0681 24 Model for pulverized coal-fired reactors
0681 34 Pulverized coal diffusion flames: A perspective through modelling

SMUTKINA, ZS
0177 214 Kinetics of the thermal decarboxylation of brown-coal
0178 372 Influence of the treatment of a gas coal with mineral acids on its capacity for undergoing hydrogenation
0178 373 Investigation of the combined pyrolysis of coal and petroleum
0278 197 Physicochemical characteristics of gas coals as a raw material for obtaining synthetic liquid fuel
1076 34 An investigation of the nature of the organomineral compounds in brown coals
1079 187 Use of derivatography for evaluating the activity in relation to atmospheric oxygen of a brown-coal and the products of its processing
1079 242 Transformations of some binders during high-temperature treatment
1080 206 A study of the influence of carbonaceous rocks on the oxidation of Chernogorsk coal
1080 207 Degree of oxidation of Irsha-Borodino brown coal and reactivity of the products of its thermal treatment

SMYCHNIK, TP
1079 235 The change in the composition of lignin in the process of peat formation

SMYK, EB
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0677 153 Design status of the pressurized-fluidized-bed combustion component test and integration unit
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978
0680 153 Process costs and flowsheets, bed defluidization characteristics, stone reactivity changes and attrition losses for a regenerative fluidized-bed combustion process
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SMYTH, M
0782 7 Organic petrology and source rock potential of sediments in the Eromanga basin, South Australia

SMYTH, JR
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

SMYTH, RR
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SMYTH, RS
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

SNAITH, JW
0280 58 Optical microscope observations of electrokinetic separation in solvent-refined coal

SNAJDR, EA
0177 217 Evaluation of slag and refractory compatibility for low-BTU gasification of coal for electrical-power generation

SNAPE, CE
0279 58 Survey of Carbon-13 chemical shifts in aromatic hydrocarbons and its application to coal-derived materials
0280 327 An investigation of the oxygen and nitrogen groups in supercritical gas extracts of coal by NMR
0281 26 Application of methylation to the separation of coal extracts
0282 143 Assignment of aliphatic carbon peaks in the Carbon-13 n.m.r. spectra of coal liquefaction products
1078 119 Application of quantitative Carbon-13 nuclear-magnetic-resonance spectroscopy to coal-derived materials
1079 35 Structural analysis of supercritical-gas extracts of coals
1079 46 Application of silylation to the characterization of benzene - insoluble coal extract fractions
1079 88 Paraffinic hydrocarbons from supercritical-gas extracts of coal as organic geochemical markers
1080 134 Structural studies on coal extracts
1080 197 Insights into the chemical structure of coal from the nature of extracts
1081 41 Identification of straight-chain fatty acids in coal extracts and their geochemical relation with straight-chain alkanes
1082 17 Estimation of oxygen group concentrations in coal extracts by nuclear magnetic resonance spectrometry
1082 64 Estimation of the concentration of donatable hydrogen in a coal solvent by n.m.r.
1082 74 Differential-pulse voltammetry at the Hanging-Mercury-Drop electrode for identification of aromatic structures in coal extracts

SNEDDEN, LL
0175 16 The small gasifier as a producer of feedstock, fuel and power

SNEDDEN, RB
0681 118 Combustion of solvent-refined coal in a 100-HP firetube boiler

SNELL, GJ
0180 243 Fast fluid bed coal gasification in a process development unit
0274 17 Coal liquefaction
0274 18 Coal liquefaction
0276 27 The application of Lummus Antisolvent deashing technology to a Solvent-Refined-Coal solution
0277 20 The application of Lummus-Antisolvent-Deashing technology to a well converted solvent-refined-coal solution
0278 159 Developmental research program for clean industrial and transportation fuels from coal
0280 154 Separation of insoluble material from coal liquefaction product
0280 284 Production of gasified products from ash containing bitumen produced in coal liquefaction

SNELLING, GF
0580 84 Nuclear electronic instrument systems using the Harwell 6000 series

SNELSON, A

0173 39 The reaction of atomic hydrogen with carbon
0178 198 Coal gasification studies. Part I. Single stage complete gasification of coal using water as the hydrogen source
0179 231 Coal gasification studies
1080 18 Coal reduction studies

SNOEBERGER, DF
0776 15 Evaluation of the native hydraulic characteristics of the felix coal (Eocene, Wasatch formation) and associated strata, Hoe-Creek site, Campbell County, Wyoming

SNOEK, PE
0382 3 Preparation of coal for pipeline transportation
0879 10 Alternatives are studied for moving coal by pipeline
0882 23 The effect of particle size distribution on the economics of short distance coal slurry pipelines

SNOW, GC
0281 300 Catalytic combustion of coal-derived liquid fuels

SNOWDON, B
0880 30 Good future for coal

SNYDER, BK
0677 60 Coal-feed component testing for CDIF
0680 232 Coal-fired open-cycle liquid-metal magnetohydrodynamic topping cycle for retrofit of steam power plants

SNYDER, CW
0180 78 Coal Technology '80

SNYDER, GA
0477 18 Solidification of fine coal refuse

SNYDER, RB
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0676 12 Removing sulfur emissions from a fluidized-bed combustion process
0677 1 Synthetic Sulfur Dioxide Sorbents for Fluidized-Bed Coal Combustors
0677 39 Reducing the environmental impact of solid wastes from a fluidized-bed combustor
0678 21 Factors limiting limestone utilization efficiency in fluidized-bed combustors
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978
0680 6 Use of oil-shale for SO//2 emission-control in atmospheric-pressure fluidized-bed coal combustors

SNYDER, RW
0680 30 Fourier transform infrared study of the variation in the oxidation of a coking coal
1080 24 Analysis of kaolinite in coal by infrared spectroscopy
1080 195 The application of fourier transform infrared spectroscopy to the characterization of coal structure
1081 8 A Fourier transform infrared study of mineral matter in coal: The application of a least squares curve-fitting program
1081 9 Low temperature air oxidation of caking coals: Fourier transform infrared studies
1081 74 Concerning the application of FT-IR to the study of coal: A critical assessment of band assignments and the application of spectral analysis programs
1082 52 Characterization of vitrinite concentrates. 1. Fourier Transform infrared studies

SNYDER, VW
0476 23 Second Symposium on Underground Mining

SNYMAN, CP
0778 35 Mineral commodities from coal

SOBCZAK, LW
0780 1 Preliminary analysis of a gravity profile across the Bonnet Plume Basin, Yukon-Territory, Canada: an aid to coal-basin evaluation

SOBEK, AA
0476 21 Fourth Symposium on surface-mining and reclamation
0480 160 Environmental control technology survey of selected U.S. strip mining sites Volume 2B: Alabama

SOBKOWIAK, M
1079 139 Bitumous coal extraction in terms of electron-donor and acceptor interactions in the solvent/coal system
1081 16 Chemical structure of coal and mechanism of its extraction

SOBKOWICZ, AM
0279 128 Dissolved salts in coal conversion wastewater

SOBOLEVSKII, AL
0380 125 Separation of brown-coal bitumens into wax and resin components by by zone-melting method

SODERBERG, HE
0376 3 Second Symposium on Coal Preparation
0381 62 Dust control for coal handling: Design considerations and solutions

SODERBERG, RL
0379 8 Sludge dewatering by belt press

SODESAWA, T
0182 52 Reaction of sulfides in fuel gases with the iron oxide in coal ashes. Fixed-bed experiments and simulations

SOFIA, AJ
0677 134 Development program for MHD power generation. Volume 4. Superconducting magnet study. Final report, July 1975 - June 1976

SOHOLT, LF
0578 113 A biologist's manual for the evaluation of impacts of coal fired power plants on fish, wildlife, and their habitats
0581 80 Handling of combustion and emission-abatement wastes from coal-fired power plants: Implications for fish and wildlife resources

SOISTER, P
0182 75 Colorado lignite for underground coal gasification

SOKASKI, M
0363 0 Cleaning unsized fine coal in a dense-medium cyclone pilot plant

SOKOL'SKY, AG
0678 109 MHD Fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

SOKOLOV, YN
0678 159 U.S./U.S.S.R. cooperative program in open-cycle MHD electrical power generation. Joint test report No. 1. Initial Test of the U-25B facility: Shakedown Test No. 1 and MHD Generator Test No. 2

SOKOLOVSKAYA, EE
1080 107 A study of some coals of the Pechora Basin with respect to the parameters of the draft petrological-geochemical classification

SOKOLOVSKII, VD

0180 244 Catalytic ammoxidation of coal

SOLASH, J
0177 90 Coal processing technology, Volume 3
0278 126 Coal liquefaction. Further liquefaction of solvent-refined-coal by controlled low-temperature air oxidation in quinoline
0279 169 Selective bond cleavage of coal by controlled low-temperature air oxidation
0280 62 Coal liquefaction: 2. Controlled oxidations and thermolysis of coal in pyridine
0280 278 Technical, energetics, and economic comparison of NRL oxidative coal liquefaction process with some developed coal liquefaction processes

SOLBERG, J
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SOLBES, A
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 237 Electrode development for coal-fired MHD-generators

SOLDATENKO, EM
1079 127 The change in the heat capacity and hardness of hard-coal cokes on calcination

SOLE, TL
0879 36 Low wall conveyor system speeds productivity

SOLETY, P
0182 81 Major problems, first results and projects of underground gasification of deep coal in France

SOLOMON, J
1077 44 Photochemistry hydrogen atoms as a structural probe of the surface of coal

SOLOMON, IJ
0276 69 Utilization of coal conversion process by-products. Annual report, June 1975 - June 1976
0278 135 The utilization of coal conversion process by-products, Final Report, June 1974 - Sept. 1977

SOLOMON, PR
0179 317 Experimental study and modeling of coal pyrolysis at high temperatures
0180 280 An in situ study of rapid coal pyrolysis using FTIR
0578 77 Evolution of fuel-nitrogen in coal devolatilization
1077 4 New method for sulfur concentration measurements in coal and char
1079 229 Relation between coal structure and thermal decomposition products
1080 128 Physical and chemical characteriztion of coal
1081 20 Correlation of coal volatile yield with oxygen and aliphatic hydrogen
1081 39 Relation between coal aromatic carbon concentration and proximate analysis fixed carbon
1081 170 Relation between coal structure and thermal decomposition products
1081 182 Coal structure and thermal decomposition
1081 212 Understanding coal using thermal decomposition and Fourier Transform infrared spectroscopy
1082 61 FTIR analysis of coal. 1. Techniques and determination of hydroxyl concentrations

SOLOV'EV, GD
0378 71 Screening coal fines before crushing in preparation for coking
1080 212 Purification of coal tar in an electric field

SOMERS, G
1052 2 Second Conference on the origin and constitution of coal

SOMERS, EV

0178 252 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 2, Conversion work, equipment list and drawings, Phase III, Work scope, project schedule. Phase II. Final report, December 1977 - August 1978
0178 253 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 3, Design and construction cost estimates, overall program costs and schedule. Phase II. Final report, December 1977 - August 1978
0178 256 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 1, Summary, Test programs, environmental assessment, gasifier control, and oxygen conversion. Phase II. Final report, December 1977 - August 1978
1177 15 Evaluation of offshore site for wind energy generation

SOMERVILLE, MH
0578 121 A comparative study of effluents and their control from four dry ash lurgi gasification plants - section A
0578 122 A comparative study of effluents and their control from four dry ash lurgi gasification plants - section B
0677 56 Technology and use of lignite
0778 33 Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North-Dakota

SOMMER, TM
0580 26 Further development of an advanced low-nitrogen-oxide (NO//x) combustion system and its potential application to coal-fired utility boilers

SONDER, E
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SONDREAL, EA
0677 56 Technology and use of lignite
0677 86 Ash fouling studies of low rank western United-States coals
0677 158 Effects of operating parameters on the sulfur retention on alkaline ash during fluidized-bed combustion of a North-Dakota Lignite
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90
1180 36 Western low rank coal development analysis

SONG, YH
0581 33 Reduction of nitric oxide by coal char at temperatures of 1250-1750 k

SONI, D S
0280 304 Comparison of the hydrodesulfurization and hydrodenitrogenation activities of monolith alumina impregnated with Co and Mo and Nalcomo 474 catalysts

SONI, DS
0281 244 A comparison of the hydrodesulfurization and hydrodenitrogenation activities of monolith alumina impregnated with cobalt and molybdenum and a commercial catalyst

SONJU, OK
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

SONNICHSEN, TW
0580 198 Use of PAH tracers during sampling of coal fired boilers

SONNICHSON, TW
0678 259 Assessment of current and advanced NOx control technology for coal-fired utility boilers

SOO, SL
0179 32 A steam process for coal gasification

SOOD, A

0280 104 Dependence of coal liquefaction behaviour on coal characteristics. 5. Data from a continuous flow reactor
0282 193 Coal liquefaction product gas analysis with an automated gas chromatograph

SOOD, JS
1081 204 Modeling of gas sorption kinetics in coal

SOPOVA, OO
1080 200 Differentiation of the coals of the Donbass with respect to the intensity of heat evolution in oxidizing processes

SOPPER, WE
0576 27 Reclamation of anthracite coal refuse using treated municipal waste-water and sludge
0578 43 Revegetation of anthracite refuse banks with municipal sewage effluent and sludge: Phase II

SORBIE, J
0478 39 Sudden outbursts of methane and coal

SORELL, G
0280 14 Materials evaluation program for the EXXON donor solvent coal liquefaction process

SORENSEN, WK
0779 5 3D mine pillar design information from 2D FEM analysis

SOROKIN, AF
0378 64 Cleaning coal slurries in column-type flotation machines
0379 69 Use of oxidized hydrocarbons for flotation of coals

SORRELL, ST
0374 3 First Symposium on Mine and Preparation plant refuse disposal

SOSIN, GA
0879 30 Controller for filling rail tankers with coal tar

SOUBY, M
0181 223 Technology and use of lignite, Vol. 1 and 2

SOUBY, AM
0280 7 UND hot-charge time-sample batch autoclave facility
0280 290 Laboratory batch liquefaction of low rank coals
0282 74 Effect of added hydrogen sulfide on the liquefaction of low-rank Western coals
0677 56 Technology and use of lignite
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

SOUDAN-MOINET, C
0181 41 Pyrolysis of coal and iron oxides mixtures. 2. Reduction of iron oxides
1080 0 Pyrolysis of coal and iron-oxides mixtures. 1: Influence of iron-oxides on the pyrolysis of coal

SOULARD, MR
1082 26 Determination of specific heats of coal powders by differential scanning calorimetry

SOUNG, WY
0579 110 Summary of gas stream control technology for major pollutants in raw industrial fuel gas

SOURIRAJAN, S
0580 173 Integrally supported tubular cellulose acetate ultrafiltration membranes and design of an industrial module utilizing such membranes

SOUTHERLAND, LI
0580 140 Compilation of environmental assessment data, February 1978 - March 1979. Volume 1. Studies 1-7

SOUTHWICK, LM
0678 100 Regeneration of calcium-sulfate from fluid-bed combustion of coal: Process design and cost estimate

SOWARDS, WE
0475 7 Third Symposium on Surface-mining and reclamation, Volume I
0476 21 Fourth Symposium on surface-mining and reclamation

SOWDEN, SK
0382 9 Four methods to raise plant output

SOWERBY, BD
0381 63 Determination of the ash content of coal using annihilation radiation
1079 85 Measurement of specific energy, ash and moisture in bulk coal samples by a combined neutron and gamma-ray method

SPACKMAN, W
0176 25 Use of Pennsylvania-coals in low-Btu gasification processes: A Preliminary Study. Special Research Report SR-112
0274 10 The relation of coal characteristics to coal liquefaction behavior
0275 8 Dependence of coal liquefaction behavior on coal characteristics
0275 29 Characterization of mineral matter in coals and coal liquefaction residues, annual report
0276 51 A petrographic classification of solid residues derived from the hydrogenation of bituminous coals
0277 128 Characterization of mineral matter in coals and coal liquefaction residues. Annual report
0280 12 Dependence of coal liquefaction behaviour on coal characteristics --4. Cluster analyses for characteristics of 104 coals
0280 354 Characterization of mineral matter in coals and coal liquefaction residues
0481 0 The management of coal composition for conversion processes
1073 18 Major, minor, and trace-elements in the liquid product and solid residue from catalytic hydrogenation of coals
1076 32 Characteristics of American coals in relation to their conversion into clear energy fuels
1077 87 Survey of selected agencies conducted to determine the extent to which the nation's coals are adequately characterized, Technical Report No. 5
1078 23 Reporting of analyses of low rank coals on the dry, mineral-matter-free basis
1078 69 Study of the interrelationships among chemical and petrographic variables of United-States coals, Technical report 9
1081 0 The nature of coal and coal seams
1081 180 Carbon-13 CP/MAS study of coal macerals of varying rank

SPACKMAN, AD
0278 201 The relation of coal characteristics to liquefaction behavior. Quarterly progress report

SPADARD, J
0479 202 Impact of OSM's regulations on deep mines

SPAEPEN, GJ
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

SPAETH, ME
0673 10 Fluidized-bed combustion used in HTGR fuel reprocessing

SPAFFORD, RB
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SPAITE, PW
0178 69 Low and Medium-Btu gasification systems technology overview
0379 117 Environmental assessment of coal cleaning processes. Technology overview
0381 81 Cost benefits associated with the use of physically cleaned coal

SPANGLER, MD
0178 286 Phase 1: The pipeline gas demonstration plant. Technical support program report

SPANTON, HM
0377 14 Coal Preparation: A look ahead

SPARACINO, CM
0179 323 Pollutants from synthetic fuels production: Sampling and analysis methods for coal gasification
0180 37 Determination of phenolics in coal gasifier condensate by high performance liquid chromatography with low-wavelength ultraviolet detection
0181 33 High-resolution FTIR analysis of coal gas
0579 113 Pollutants from synthetic fuels production: Coal gasification screening test results
0580 201 Analysis and assessment of PAH from coal combustion and gasification

SPARHAM, G
0681 2 Some advanced systems for power generation

SPARKS, D
0580 35 Environmental base-line data

SPARKS, DA
0480 98 Computerized maintenance management

SPARKS, LE
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

SPATARO, SJ
0177 256 Proceedings of the third annual underground coal conversion symposium

SPAULDING, LD
0679 8 Coal-oil mixture combustion progress report

SPECKS, R
0178 89 Symposium on Coal Refining, Proceedings
0179 259 Coal conversion projects in Western Germany
0181 130 German hard coal conversion projects
0281 353 Coal conversion R & D in Western Germany
1180 4 Gasification and hydrogenation of coal - status and prospects

SPEICH, P
0177 23 Trends in coal gasification techniques and hydrogenation
0181 120 Lignite processes planned in Germany

SPEICHER, HW
0578 103 A research ambient air industrial hygiene survey of the Pittsburgh Energy Technology Center at Bruceton, Pennsylvania - final report, April 15 - August 30, 1978

SPEICHERT, A
0876 4 Wind entrainment of coal particles and its control

SPEIGHT, JG
0175 71 Coal Gasification: Selected Abstracts and Titles
0178 89 Symposium on Coal Refining, Proceedings
0279 171 Some observations on the molecular 'nature' of petroleum asphaltenes
0280 23 Use of heavy oils (and derivatives) to process coal
0281 122 Investigation in the use of heavy oils (and derivatives) to process coal
0282 16 Effects of process parameters on the liquefaction of coal using heavy oils and bitumens
0282 173 The co-processing of heavy oil and coal
1071 1 The application of spectroscopic techniques to the structural analysis of coal and petroleum
1073 1 Prevention of spontaneous heating by low temperature immersion carbonization of coal
1078 56 Assessment of structures in coal by spectroscopic techniques

SPENCER, D
0282 80 Advanced power systems division - R&D status report

SPENCER, DF
0179 33 Liquefaction and gasification: a promising outlook
0181 233 The cool water coal gasification combined-cycle project
0182 117 Coal gasification for electric power generation

SPENCER, ER
0482 106 Testing of fire-resistant conveyor belting

SPENCER, FE
0174 12 Coal processing technology
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

SPENCER, HT
0474 3 Fifth Symposium on Coal Mine Drainage Research

SPENCER, JD
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

SPENCER, JL
0178 272 Coal processing technology, Volume IV

SPENGER, C
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SPENGLER, C
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

SPENGLER, CJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0677 98 Characterization of corrosion and deposits in the laboratory gas-turbine simulator burning heavy fuels with additives
0677 112 Corrosion/deposition in fluidized-bed combustion power-plant systems

SPERANDIO, RJ
0778 4 Studies of a geothermal system in Northwestern-Nevada - Part I

SPERANSKAYA, GV
0379 85 Methods for obtaining shaped coke and results of trials of such coke in blast furnaces
1180 38 Technical and economic basis of the development of new methods for the intensive processing of coals

SPERLING, JL
0680 158 Simulation of cold flow in agglomerating reactors, JAYCOR Topical report No. 1

SPINETTI, L
1063 3 Plastic, agglutinating, and free-swelling properties of American coals

SPINK, DR
0381 107 Chemical comminution of Nova Scotia coals
1180 14 Physical and chemical characterization of Athabasca tar sands fly ash

SPINOLA, AA
0178 26 Ozonation of coal gasification plant wastewater

SPIRIDONOV, EG
0675 12 Development and study of high temperature materials for various components of MHD installations
0678 98 Tests and studies of U.S.S.R. materials at the U.S. coal burning MHD facility UTSI-2

SPIRO, CL
1081 80 Space filling models for coal: a molecular description of coal plasticity

SPIRONELLO, VR
0680 87 Partial replacement of coke in cupola operation

SPITLER, CA
0278 164 An improved method for the analysis of coal liquids
0281 229 Iron content of pyrrhotites produced in continuous liquefaction units

SPITSYNA, NG
0680 199 The role of the iron-containing components in the formation of the steady-state potential of coals

SPITZER, K
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

SPITZER, Z
1081 105 Mercury porosimetry and its application to the analysis of coal pore structure

SPITZER, RH
0178 385 Sulfur fixation during coal gasification

SPIVEY, CE
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

SPONSELLER, DL
0180 112 Delta ferritic heat-resistant chromium-molybdenum steels with improved rupture strength

SPOONER, FM
0677 241 Application of fluidized-bed technology to industrial boilers

SPOONS, SM
0681 115 Tennessee Valley Authority 20-MW AFBC pilot plant-design features and test program TVA/OP/ED&T - 81/32

SPORE, RL

0475 8 Third Symposium on Surface-mining and reclamation, Volume II

SPOSITO, G
0581 30 Trace metals in contaminated waters

SPOTTED-ELK, W
0581 1 Hydrologic impacts from potential coal strip mining - Northern Cheyenne Reservation - project summary

SPRIGGS, DR
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

SPRINGFIELD, HW
0476 21 Fourth Symposium on surface-mining and reclamation

SPROSON, JC
0878 6 Pneumatic-transport of coal

SPROULS, MW
0479 25 Ripping aids reclamation at Eastern-Kentucky mine
0479 116 Respiratory protection - there's more than meets the eye
0480 124 Martiki: The largest mountaintop mine
0481 132 Arch mineral pursues multiple dipping seams

SPROUSE, KM
0177 177 Theory of pulverized coal conversion in entrained-flows, Part 1: Hydrogasification
0180 50 Modeling pulverized coal conversion in entrained flows
0181 202 Predicting lignite devolatilization with the multiple parallel and two-competing reaction models

SQUIRES, AM
0172 11 The Coalplex: Gas, Gasoline, and Clean Electricity from Coal
0173 12 Symposium papers, Clean fuels from coal
0175 32 RANN utilization experience, Case Study Number 15, New techniques for Gasifying coal
0180 145 Research needs for coal gasification and coal liquefaction
0275 5 Flash hydrogenation of a bituminous coal
0276 87 Flash hydrogenation of coal. 1. Experimental methods and preliminary results
0276 88 Flash hydrogenation of coal. 2. Yield stucture for Illinois No. 6 coal at 100 atm
0277 132 Fluidization theories and applications
0278 39 Reaction paths in donor solvent coal liquefaction
0281 156 Organically bound metals in a solvent-refined-coal: metallograms for a Wyoming subbituminous coal
0676 32 Fluidization technology, volume 2
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SQUIRES, TG
0380 171 Evaluation of oxydesulfurization processes for coal 1. The effect of the Ames process on model organosulfur compounds

SRINIVAS, B
0180 59 Single particle char gasification model
0182 115 Char gasification: particle model comparison in a stirred tank reactor

SRINIVASAN, D
0179 167 Coal gasification: Its need and environmental aspects

SRINIVASAN, G
0182 17 Electron spin resonance from impurities in coal-derived pyrites

SRINIVASAN, V
0682 32 Stirling engines for power production with coal and solid waste

SRINIVASARAGHAVEN, S
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

SRIVASTAVA, RA
1078 104 Differential thermal analysis: A parameter to the study of minerals and catalysis

SRIVASTAVA, SC
1078 149 Study of coal and coal-products by infrared and lasar-raman-spectroscopy

SRIVASTAVA, SK
0178 144 Calculation of molar free energy functions and yields of hydrocarbons produced in plasma pyrolysis of coal
1082 47 Theoretical maximal yield of acetylene from coals by plasma pyrolysis

SRIVASTAVA, SN
0179 246 Low temperature catalytic gasification of coal

ST-CLAIR, EG
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

ST-JOHN, GA
0278 3 Characterization of coal-liquefaction products by molecular-weight profiles produced by field-ionization mass spectrometry

STACE, LR
0480 169 Aspect of support technology in West German mines
0481 119 A rationale of roadside packing

STACEY, AE
1082 32 Effect of low-volatile additives on the structure and strength of cokes

STACHURA, JA
0476 29 Second Institute on Coal Mine Health and Safety

STADELHOFER, JW
0179 139 A carbon-13 N.M.R. study of low-volatile by-products of coal- gasification
0281 25 Carbon-13 NMR study on hydroaromatic compounds in anthracene oil
0281 223 Analysis of anilines in coal-derived based fractions by Fluorine-19 NMR of hexafluoroacetone adducts
0381 52 The manufacture of high-value carbon from coal-tar pitch
1079 86 Recent advances in the analysis of coal-derived products
1080 32 Examination of the influence of natural quinoline-insoluble material on the kinetics of mesophase formation
1081 15 Analysis of coal and coal derived products

STAEGE, H
0177 257 Gasification of coal by the Koppers-Totzek process for the production of ammonia
0179 168 The Shell-Koppers coal gasification process. An improvement on the Koppers-Totzek process
0181 184 Beneficiation of coal to form chemical primaries and other energy carriers by gasification
0182 12 Entrained-bed gasification
0679 72 Entrained-bed coal gasifiers handle double throughput

STAEHLE, RW
0174 25 Materials problems and research opportunities in coal conversion, Volume 1: conclusions and recommendations
0174 30 Materials problems and research opportunities in coal conversion: Volume 2. Presentations by speakers and

background materials

STAHL, D
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0178 201 Evaluation of ceramic refractories for slagging gasifiers: Summary of progress to date

STAIGER, PJ
0678 49 Evaluation of the ECAS open-cycle MHD power-plant design
0679 4 MHD performance calculations with oxygen enrichment

STAINER, AI
0478 2 Czechoslovakia's Coal Mining Industry

STAKER, R
0280 359 Hydroliquefaction of Australian coals continuous reactor studies on a Victorian brown coal
0281 348 Hydroliquefaction of Australian coals continuous reactor studies on bituminous coals

STAKEY, JP
0574 12 Analyses of tars, chars, gases, and water found in effluents from the Synthane process

STALLMANN, JJ
1080 109 Technique to measure the temperature of agglomeration of coal ash

STAMBAUGH, EP
0176 95 Phase I summary report on a novel approach to coal gasification using chemically-incorporated catalysts
0177 90 Coal processing technology, Volume 3
0375 5 The Battelle hydrothermal coal process
0376 9 Fuel separation process
0377 52 Hydrothermal coal process
0576 24 Hydrothermal coal desulfurization with combustion results
0577 65 Emissions from the combustion of hydrothermally treated (clean) coal
1177 16 Coal desulfurization by the Battelle hydrothermal coal process

STAMM, GG
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

STAMM, PL
0178 228 Analysis and interpretation of laboratory coal gasification simulation data
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

STAMOUDIS, VC
0179 74 Removal of organic constituents in a coal gasification process wastewater by activated sludge treatment
0180 60 Determination of biological removal of organic constituents in quench waters from high-btu coal-gasification pilot-plants
0182 10 Isolation of mutagenic aromatic amines from a coal conversion oil by cation exchange chromatography

STANBRIDGE, DW
0174 58 The RMProcess

STANCEL, SA
0778 33 Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North-Dakota

STANDER, CM
0279 214 Hydrodenitrogenation of coal liquids and petroleum with heterogeneous catalysts in multiphase reactors. Review and recommendations for further work

STANEK, EK
0480 201 Optimal voltage selection in underground coal mine power systems

STANGEBY, PC
0181 42 Rapid pyrolysis and hydropyrolysis of Canadian coals

STANGELAND, BE
0180 69 Converting SRC-II process product to transportation-fuel
0278 142 Refining and upgrading of synfuels from coal and oil-shales by advanced catalytic processes. Final interim report, Processing of Paraho Shale-Oil
0279 227 Refining and upgrading of synfuels from coal and oil shales by advanced catalytic process - Second Interim Report Laboratory and Pilot Plant studies of the processing of SRC-I
0280 365 Catalytic hydroprocessing of SRC-II and H-coal syncrudes for BTX feedstocks
0281 238 Catalytic upgrading of SRC-II syncrude
0281 239 Catalytic upgrading of H-Coal syncrudes

STANGL, C
0282 86 Petrographic analysis for a high volatile Australian coal and its liquefied residue

STANIC, N
0482 24 Caving shields win Slovenian lignite

STANIN, SA
0475 10 First Symposium on Underground Mining, Volume II

STANISLAVSKII, LY
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

STANKEVICH, AS
1081 138 The interconnection of the plastic-viscous properties and the petrographic features of Kuznetsk coals in charges
1081 177 Influence of the magnitude of the surface of leaning additives on the caking of coals

STANKEVICH, VV
0681 111 Comparative investigation of the process of thermal destruction of petroleum and hard-coal pitches and fractions of them

STANLEY, CL
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

STANLEY, FL
0378 19 Ash monitoring at Pittston's Moss No. 3 plant

STANMORE, BR
0178 197 Removal of water from brown-coal by treatment with steam
0381 36 High strength binderless brown coal briquettes - Part 1. Production and properties
0381 38 High strength binderless brown coal briquettes - Part II. An investigation into bonding
0680 12 Fluidized bed combustion of wet brown coal
0680 65 Burnout rates of brown coal char particles in fluidized bed combustors
0779 43 The physical structure of brown coal
1080 22 Rheological behaviour of Victorian-Brown-coal
1080 45 Colloidal structure of Victorian-Brown-Coal. 3. Examination by ultracentrifugation
1081 165 The nature and possible significance of particulate structure in alkali-treated brown coal

STANOV, VV
0779 35 A general equation for the metamorphism of coals

STANSFIELD, E
0781 17 Typical analysis and data on ash-quality of Alberta coals

STANTON, DW
1078 98 Identification and significance of accessory minerals from a bituminous coal

STANTON, RW
0779 38 Geologic controls on element concentrations in the Upper Freeport coal bed
1079 223 Modes of occurrence of selected trace elements in several Appalachian coals
1082 80 Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia

STAPLES, GM
0576 18 Coal preparation for conversion processes

STARCHIK, LP
1079 212 Influence of variations in the parameters of coal on the readings of ash-meters
1079 252 Method of measuring the ash of coal
1080 173 A method of determining the carbon content of coals from the Gamma radiation of the nonelastic scattering of fast neutrons
1081 124 The monitoring of ash content by the neutron gamma radiation spectrometry method

STARCHUK, Z
1080 113 Analysis of coal asphaltenes by carbon-13 Fournier transform nuclear magnetic resonance spectrometry

STARICHENKO, NS
0678 245 Role of sorption in the sintering of carbonaceous materials

STARITSYN, OV
0379 70 Separation of coal with respect to ash content on screens

STARK, AH
0678 92 The rates and mechanisms of pulverized coal combustion - First annual report

STARKIE, HC
0281 26 Application of methylation to the separation of coal extracts

STARKOVICH, JA
0175 49 Hydrogen production by catalytic coal gasification
0177 166 Catalytic conversion of coal energy to hydrogen, Project final report

STARLING, KE
0279 57 Predicting thermodynamic properties for fossil-fuel chemicals
0280 230 Data bank for synthetic fuels
0281 46 Development of a standardized method to characterize fossil fluids for process design

STARR, C
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

STARR, JW
0680 206 Design study of a coal-fired thermionic (THX) - topped power plant

STARR, RF
0679 33 Report on the MHD performance demonstration experiment for the period October 1977 to September 1978

STARSINIC, M

1081 74 Concerning the application of FT-IR to the study of coal: A critical assessment of band assignments and the application of spectral analysis programs

STARZOMSKI, JJ
0279 138 Low severity coal liquefaction process: Final report
0480 219 Proceedings: Direction of Coal Research in Eastern Canada

STASA, FL
0178 395 The thermodynamic performance of two combined cycle power plants integrated with two coal gasification systems - dissertation
0181 105 The thermodynamic performance of two combined cycle power plants integrated with two coal gasification systems

STASSEN, P
0478 248 Roof control at the longwall faces during the past 25-years

STATECZNA, M
0280 254 Studies on tars from the fast pyrolysis of coal

STATEHAM, RM
0478 202 Humidity: A cyclic effect in coal mine roof stability
0480 197 Long-term response of a coal mine roof to time lapse between exposure and support

STATNIK, R
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

STAUB, FW
0678 112 Flow regimes and void fraction distribution in gas fluidization of large particles in beds without tube banks
0680 54 Two-phase flow and heat transfer in fluidized beds
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

STAUB, JR
0477 46 Partings: origins and their significance in coal mining

STAUBS, DW
0279 113 The effect of solvent on solvent refined coal denitrification

STAVSKY, RM
0181 219 Coal Technology '81, Vol. 4

STEARNS, C
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

STEARNS, CA
0280 277 Deposition and material response from Mach 0.3 Burner Rig Combustion of SRC-II Fuels

STEARNS, RS
0280 120 Coal extraction process

STEBLAY, BJ
0475 10 First Symposium on Underground Mining, Volume II

STECCONI, P
0679 78 Operative variables of a pre-pilot plant for fluidized-bed combustion
0679 143 Calculation of carbon load and axial profiles of oxygen concentration in the bed of a fluidized combustor

0681 47 The processing of solid particles in fluidized beds

STEED, GE
0478 209 Mechanized steep seam working

STEEDMAN, W
1080 72 Straight-chain alkyl chain lengths in petroleum asphaltenes

STEEDMAN, WG
0179 227 Utility gas from an agglomerating burner gasifier

STEELE, DJ
0678 160 A review of spontaneous combustion problems and controls with application to U.S. coal mines. Final technical report. Contractor - PD - NCB Consultants Limited. Dames & Moore

STEELE, RV
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary
0277 89 Synthetic liquid fuels development: Assessment of critical factors. Volume IV. Energy/economic comparison of coal based automotive energy supply systems

STEELE, TD
0578 80 Assessment techniques for modeling water quality in a river basin impacted by coal resource development

STEELMAN, DM
0180 78 Coal Technology '80

STEELS, K
0979 8 Development in drilling-fluids and methods for core-drilling

STEFANKO, R
0475 9 First Symposium on Underground Mining, Volume I
0477 23 Underground extraction techniques for thick coal seams.

STEFANOVA, M
1080 106 Use of HPLC in fractionation of lignite humic substances
1081 91 ESR spectrometric study of directly prepared potassium-coal adducts
1082 2 Structural study of coals by means of directly-prepared potassium-coal adducts

STEFANSKI, MJ
0181 223 Technology and use of lignite, Vol. 1 and 2

STEFFES, DW
0881 43 A review of U.S. coal slurry pipeline industry: why - why not?

STEFFGEN, FW
0178 225 Effect of reduction temperature, carbiding and sulfur-poisoning on the methanation activity of Raney-nickel
0279 207 Coal liquefaction with synthesis gas

STEFURAK, GR
0282 8 Viscosity of coal-bitumen and coal-anthracene oil slurries

STEGEN, GE
0177 100 Removal of sulfur compounds from fuel-gases

STEIDL, PF
0178 99 Foam stimulation to enhance production from degasification wells in the Pittsburgh coal-bed

STEIGER, HA
0279 221 Economic and technological assessment of diesel engines using coal-based fuels for electric power generation. Final Report
0680 160 Performance tests of a slow-speed, two-stroke diesel engine using coal-based fuels

STEIN, FP
0176 52 Dynamic simulation of coal conversion plants
0177 271 Development of a modular software system for the dynamic simulation of coal conversion plants. Annual report, June 1976 to June 1977
0179 277 Development of a modular software system for the dynamic simulation of coal conversion plants, final report

STEIN, RL
0479 170 Interrelationships of respiratory variables of coal miners during work

STEIN, SE
0280 208 Application of thermochemistry and kinetics to model compound reactions
0281 267 A fundamental chemical kinetics approach to coal conversion

STEIN, TR
0176 35 Conversion of Fischer-Tropsch heavy product to high quality jet-fuels
0278 85 Economic screening evaluation of upgrading coal liquids to turbine fuels
0279 134 Upgrading of coal liquids for use as power generation fuels
0678 51 Utilization of coal-derived liquid fuels in a combustion turbine engine
0679 133 Upgrading coal liquids to turbine fuels
0680 40 Gas turbine combustor performance on synthetic fuels

STEINBERG, M
0177 137 Flash-hydropyrolysis process for conversion of lignite to liquid and gaseous products
0178 284 Fusion and coal energy system for the production and delivery of SNG, steam, and electric-power - the burning bush concept
0180 295 Flash pyrolysis and hydropyrolysis of coal
0180 300 Flash hydropyrolysis of coal - Quarterly Report No. 12, January 1 - March 31, 1980
0275 15 Coal liquefaction by rapid gas phase hydrogenation
0277 8 Flash-hydropyrolysis of coal. The design, construction, operation, and initial results of a flash-hydropyrolysis experimental unit
0279 95 Flash hydropyrolysis of coal
0280 6 The kinetics of flash hydrogenation of lignite and subbituminous coal
0280 38 The flash hydropyrolysis of lignite and sub-bituminous coals to both liquid and gaseous hydrocarbon products
0281 283 The rapid hydropyrolysis of sub-bituminous and bituminous coals
0282 92 Flash pyrolysis and hydropyrolysis of coal
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0677 8 Fluidized-Bed Coal Combustion with lime additives. The phenomenon of peaking of sulfur retention at a certain temperature.
0677 173 Regeneration of lime for fluidized-bed combustion with carbon, with silica and with coal-ash
0678 71 Fluidized-bed combustion of coal with lime additives: Catalytic sulfation of lime with iron compounds and coal-ash
0680 109 Regenation of lime from sulfates for fluidized-bed combustion
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0682 9 Control of carbon dioxide emissions from a power plant (and use in enhanced oil recovery)

STEINBERG, RM
0180 285 Critical studies in the rapid pyrolysis and hydropyrolysis of coal - Project Report July 1, 1979 - March 31, 1980

STEINER, P

1076 17 Modular system for reducing sulfur-dioxide

STEINHARDT, EJ
0679 198 The feasibility of using coal to heat and cool public buildings in West Virginia

STEINHART, CE
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

STEINHART, JS
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

STEININGER, RJ
0279 65 Charge and filtration of solvent-refined-coal suspensions

STEINLE, HF
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

STEJSKA, O
1077 5 Prospects for carbon-13 nuclear-magnetic-resonance analysis of solid fossil-fuel materials

STEKHUN, AI
0181 154 Slow coking of liquid coal-processing products
1080 126 Experience in the combined processing of feedstocks of coal and petroleum origin by the slow coking method

STEKLY, ZJ
0380 149 Coal preparation using magnetic separation, Volume 2

STELIAN, J
0177 114 Coal gasification - New challenge for the Beaumont rotary feeder

STELMA, GJ
0378 82 Influence of surfactants on the dewatering of coal - dissertation

STENBERG, VI
0279 180 The use of acetylation of quantitate acid groups in coal derived liquids
0279 193 Carbon monoxide-water vs. hydrogen for liquefaction: The reduction of diphenylsulfide, thioanisole and dibenzothiophene
0280 260 Solubility increase of coal-derived liquids by silylation and acetylation: intermolecular hydrogen bonding
0281 0 Process chemistry of direct liquefaction of lignite with hydrogen and carbon-monoxide
0281 97 Quantitative FT 13C N.M.R. of solvent-refined coals using sym-triazine as solvent
0282 52 Low-rank coal liquefaction employing H//2S as a homogeneous catalyst
0282 83 Analytical cleavage of diaryl ethers as models for asphaltene and preasphaltene structures
0282 189 Use of acetylation and Carbon-14-counting to quantitate hydroxyl groups in preasphaltenes and asphaltenes from coal hydrogenation
0677 56 Technology and use of lignite
1077 54 Comparison of solvent-refined-lignites with solvent-refined bituminous coals
1079 99 Evaluation of solvents for carbon-13 n.m.r. analysis of solvent-refined-coals

STENBY, EW
0180 78 Coal Technology '80
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

STENCEL, JN
0280 101 Infrared spectroscopic investigation of NO adsorbed on heterogeneous catalysts

STENEHJEM, EJ

1176 8 A socioeconomic assessment of energy development in a small rural county: coal gasification in Mercer-County, North-Dakota

STENGER, HG
0281 127 Effect of Carbon formation on liquid viscosity and performance of Fischer-Tropsch bubble-column reactors

STENUIT, R
0478 309 Stabilizing the ventillation in underground methane-laden or methane-free mines, particularly in the case of fires (shafts not included)

STEPANEK, S
0181 182 An investigation of the composition of the neutral fraction of the condensate from the detoxification of generator gas

STEPANENKO, MA
0181 153 An investigation of the kinetics of the change in the group composition of the anthracene fraction on heat treatment
1078 110 Investigation of the nonvolatile liquid substances isolated from the plastic mass of coal
1080 102 Pitch from thermal processing of tar

STEPASHKO, VG
0379 113 Improved dewatering of fine coal concentrate

STEPHAN, CR
0479 188 Frictional ignition of methane by continuous mining machines in underground coal mines

STEPHENS, DR
0173 11 Economic estimates of the Lawrence Livermore Laboratory concept of in-situ coal gasification
0174 49 Revised cost estimate for the LLL in-situ coal gasification concept
0176 72 LLL in-situ coal gasification program
0177 105 Ground-water quality effects of an underground coal gasification experiment
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 187 LLL in-situ coal gasification program, Annual report fiscal year 1977
0178 282 Highlights of the LLL Hoe-Creek No. 2 underground coal gasification experiment
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 82 The private sector involvement in underground coal gasification
0179 86 LLL 1979 field program
0179 94 Costs of drilling, completing and linking process wells for underground coal gasification as a function of linking method, coal bed thickness and depth
0180 28 Underground coal gasification experiment: Hoe Creek II
0180 81 Underground coal gasification
0180 114 Highlights of the LLL Hoe Creek No. 3 underground coal gasification experiment
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0180 246 An introduction to underground coal gasification
0180 269 Results from the Hoe Creek No. 3, Underground coal gasification experiment
0182 84 Technical underground coal gasification summation: 1982 status
0374 0 Coal utilization symposium - Focus on SO//2 emission control

STEPHENS, FM
0181 113 Process for enhancing the fuel value of low Btu gas

STEPHENS, HP
0282 144 Decomposition of pyrite under coal liquefaction conditions: a kinetic study

STEPHENS, JF

0279 163 Structural analysis of coals and coal derivatives using reference polymers and the C-H-O ternary diagram
0281 87 Aromatic and aliphatic composition of the solid and liquid products from hydrogenation of Liddell coal
1079 9 Coal as a C-H-O ternary system. 1. Geochemistry
1079 10 Microscopic observations of the swelling of a high-volatile bituminous coal in response to organic solvents

STEPHENSON, HG
0481 38 Coal Mining Safety Bord of Inquiry, Final Report

STEPIN, BS
0877 17 Economics of mineral and brown coal pipeline hydrotransport

STEPOVOI, GI
1081 139 Features of the molecular structures of coals of different genetic types in relation to degree of reduction

STERBENZ, P
0180 89 Coal conversion to-day

STERETT, E
0478 87 Site selection and design for minimizing pollution from underground coal mining operations

STERK, A
0676 36 CDIF instrumented test section - final report

STERN, EW
0278 80 Catalyst development for hydroliquefaction of coal

STERN, KH
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

STERNBERG, HW
0275 16 Synthoil process and product analysis
0278 227 Mechanism of coal liquefaction: a challenge to the organic chemist
0279 79 Silylation: A method for benzene solubilization of benzene-insoluble, pyridine-soluble coal-derived products

STERNBERG, VI
0280 238 Carbon monoxide-water vs. hydrogen for liquefaction: the reduction of diphenylsulfide, thioanisole and dibenothiophene

STERNER, T
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

STERNER, TE
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

STERRY, WM
0882 36 Pacific Bulk transportation system

STETSON, A
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

STETSON, AR
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0677 222 Corrosion and erosion evaluation of turbine materials in an environment simulating the CPU-400 combustor operating on coal. Final report

STETSON, DC
0279 104 Catalytic liquefaction of coal

STETTER, JR
0182 21 Effect of trace metal ions on the analysis of synthetic fuel samples

STETTLER, LE
0582 28 Chemical composition of coal and other mineral slags

STEUBER, A
0280 63 Steam jet ejectors play pivotal role in coal liquefaction pilot program

STEVENS, CA
0477 92 Fifth Symposium on Surface-mining and reclamation

STEVENS, NJ
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

STEVENS, RB
0476 28 Mine shaft fire and smoke protection system. Volume II. Validation testing and cost effectiveness evaluation

STEVENS, WG
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0677 222 Corrosion and erosion evaluation of turbine materials in an environment simulating the CPU-400 combustor operating on coal. Final report

STEVENSON, DA
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

STEVENSON, JW
0475 9 First Symposium on Underground Mining, Volume I
0481 49 Methane control in the warrior coal fields of Alabama

STEWARD, DH
0278 113 Catalyst development program for hydrodesulfurization and liquefaction of coal to produce clean boiler fuels, Final report

STEWARD, FR
1182 21 Canadian energy consumption in the seventies: trends and interpretation

STEWART, D
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

STEWART, N
0676 41 Solvent refining for clean coal combustion

STEWART, CL
0477 53 Subsurface rock-mechanics instrumentation program for demonstration of shield-type longwall supports at York-Canyon, Raton, New-Mexico

STEWART, DB
0882 51 Pump scaling and leakage characteristics of a positive displacement rotary ram slurry pump

STEWART, DG
0280 115 Process for the production of amorphous aluminosilicates and their use as catalysts

STEWART, GD
0680 227 How Detroit Edison solved wet and frozen coal-flow problems at its Monroe power plant

STEWART, GW
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers
0581 18 Surface enrichment of aluminosilicate minerals and coal combustion ash particles

STEWART, IM
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0179 113 In-situ gasification research in Australia bench trials of a parallel borehole system
0679 111 Mineral matter in coal and the thermal performance of large boilers

STEWART, JA
0882 70 Belt conveyor booster drives

STEWART, JT
0178 100 Considerations when converting industrial plants to coal-firing
0180 315 Coal gasification plants for the pulp and paper industry
0279 91 Converting coal to liquid/gaseous fuels
0579 87 An integrated assessment of Texas lignite development, Volume I. Techanical analyses
0673 12 Fluidized-bed gasification - Process and equipment development

STEWART, NC
0180 26 Synthetic liquid fuels
0277 30 Conversion of Western United-States-coals to liquid products
0277 50 Solvent-refining of West-Kentucky 9-14 coal
0278 173 Liquid phase prilling of solvent-refined-coal

STEWART, OW
0677 20 Clean-coal combustion through coal washing and blending
0680 78 Methanol-gasoline blend fuel test program

STEWART, PJ
1177 11 An econometric analysis of energy over the next 75 years

STEWART, RC
0182 65 An R&D program for UCG in bituminous coals
0182 80 An assessment of underground coal gasification in bituminous coals

STEWART, RD
0380 112 Induced fluorescent sorting technique holds promise
0679 145 Atmospheric fluidized bed fired industrial size steam-generator design

STEWART, RE
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

STEWART, RF
0169 1 Influence of residence time, temperature, and steam concentration on coal-steam gasification reactions
0678 28 On line monitoring of major ash elements in coal conversion processes

STEWART, RH
0178 98 Vertical-lift-dryer pilot-plant design, Final Report, Appendix
0178 103 Vertical-lift-dryer pilot-plant design, Final Report

STEWART, RM
0178 272 Coal processing technology, Volume IV

STICKFORD, GH
0281 183 Thermophysical properties of preheater slurries
0678 196 Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Final report for the period June 1976 - Nov. 1977

STICKLER, DB
0181 101 The Avco gasifier in a combined cycle power plant
0280 333 Indirect liquefaction via the Avco coal gasification system
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0676 21 CDIF combustor design. Final report
0677 122 Controlled utilization of coal slag in the MHD topping cycle
0677 150 Development program for MHD power generation. Coal devolatilization. Final report, Vol. VI, July 1975 - Sept. 1976
0678 233 Mechanistic modeling of pulverized-coal combustion
0678 234 Coal combustor technology development
0679 157 Progress in coal combustion research at Avco Everett Research Laboratory Inc.

STICKLES, RP
0177 90 Coal processing technology, Volume 3
0277 73 The relative advantages of coal conversion routes for electric-power generation

STICKSEL, PR
0177 90 Coal processing technology, Volume 3

STIEFEL, AI
0480 65 Underground communications and information systems

STIEGAL, GJ
0280 261 Pyrolysis of coal liquids

STIEGEL, GJ
0181 9 Use of fundamental concepts in catalyst aging to increase catalyst utilization during coal liquefaction, steam reforming, and other carbon-forming reactions
0281 128 1980 status review - hydroliquefaction of coal with supported catalysts
0281 175 Refining of coal liquids
0281 206 Catalyst deactivation during coal liquefaction: the effect of catalyst diameter
0281 318 Chemical and physical aspects of refining coal-liquids
0282 113 Catalyst deactivation during coal liquefaction. The effect of catalyst diameter

STIEGER, W
0181 61 Alternative process schemes for coal conversion

STIL, JH
0180 207 Centrifugal pump for powder and a process and apparatus for the gasification of coal powder

STILES, AB
0276 68 Kinetics and mechanism of desulfurization and denitrogenation of coal-derived liquids. Annual report, June 1975 - June 1976
0280 258 Development of unique catalysts for hydrodenitrogenation of coal-derived liquids

STILES, DP
0179 349 Design of refractories for coal gasification and combustion systems - Final Report

STILL, C
0380 167 Apparatus for the removal of a tar-and coal suspension from ammonia liquor

STILL, WL
0477 62 Detection, delineation and location of hazards using ground-probing-radar in coal mines

STILLER, J
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

STILLER, AH
1078 50 Application of Moessbauer-spectroscopy to monitor acid-mine-drainage potentials of coal seams

STILLMAN, R
0179 138 Simulation of a moving-bed gasifier for a western coal

STINESPRING, CD
0581 18 Surface enrichment of aluminosilicate minerals and coal combustion ash particles
0677 94 Chemical transformations of the minerals in eastern bituminous coals under simulated pulverized coal-firing conditions

STINSON, DL
0173 46 Alkali carbonate and nickel catalysis of coal-steam gasification

STIRLING, JA
0277 81 Studies on the separation of coal extract from solid residue in liquefied coal
1079 118 Behavior of liquefied coal in filtration

STOBAUGH, R
1179 17 Energy future: Report of the energy project at the Harvard Business School

STOCK, LM
0279 191 Coal alkylation reaction. The characteristics of the alkylation reactions and products
0280 350 Coal anion structure and chemistry of coal alkylation - Final Report for period March 1, 1979 to February 29, 1980
0281 261 The alkylation of coal
0282 18 Aspects of the chemistry of donor solvent coal dissolution. The hydrogen-deuterium exchange reactions of tetralin-d//12 with Illinois-No-6 coal, coal products and related compounds
0282 150 Reductive alkylation of Illinois No. 6 coal in liquid ammonia
1078 96 Proton and carbon n.m.r. spectra of butylated coal
1082 12 The reductive alkylation of Illinois No. 6 coal. Factors governing the reductive alkylation reaction in ethereal solvents

STOCK, WE
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

STOCKBURGER, L
0578 58 Oxidation of sulfur-dioxide to sulfate aerosols in the plume of a coal-fired power-plant
0681 68 Atmospheric oxidation of flue gases from coal-fired power plants - a comparison between conventional and scrubbed plumes

STOCKS, J
0577 38 Environmental impact of mining

STOCKTON, JG
0480 181 Properties and plant growth potential of mineland overburden
0481 161 Characteristics of coal mine overburden important to plant growth

STOCQ, R
0281 24 Behavior of pyrite during hydrogenation of graphite at atmospheric pressure

STODDEN, J
0482 111 Reduced industrial activity softens the steam coal market
1182 15 Declining demand for electricity and steel slow coal sales
1182 17 The recession takes a heavy toll on the coal industry

STOECKER, HJ
0178 89 Symposium on Coal Refining, Proceedings

STOEHR, RA
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

STOENNER, HM
0180 293 Some evaluations on phase equilibria for coal gas condensates

STOHL, FV
0282 144 Decomposition of pyrite under coal liquefaction conditions: a kinetic study

STOJANOV, C
0179 220 Gasification of coal

STOKES, BJ
1081 41 Identification of straight-chain fatty acids in coal extracts and their geochemical relation with straight-chain alkanes

STOKES, CA
0175 15 The manufacture of industrial-fuel-gas from coal on small scale
0278 35 New twist for making products from coal
1179 20 Synthetic fuels at the crossroads
1181 16 Alcohols: The old new fuels

STOLBOVAYA, ES
0778 38 Evaluation of the quality of coals as a raw material for hydrogenation

STOLFA, F
0275 23 Moving bed reactor startup
0280 178 New roles for thermal cracking

STOLLER, DA
0580 114 Bibliography of aquatic ecosystem effects, analytical methods and treatment technologies for organic compounds in advanced fossil-fuel processing effluents

STOLTZ, RE
0180 161 Alloy selection for sulfidation-oxidation resistance in coal gasification environments

STOLZENBURG, TR
1080 112 A simple acid digestion method for the determination of ten elements in ambient aerosols by flame atomic

absorption spectrometry

STOMPEL, Z
0280 254 Studies on tars from the fast pyrolysis of coal

STOMPEL, ZJ
1082 70 Structural analysis of tars from fluidized-bed pyrolysis of coal. 1. Gas-liquid chromatography of aliphatic and aromatic subfractions

STONE, R
0179 86 LLL 1979 field program
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0180 265 Characterization of a potential underground coal gasification site in the State of Washington
0577 21 Environmental assessment of solid residues from fluidized-bed fuel processing
0677 169 Environmental assessment of residues from the fluidized-bed combustion of coal and the gasification of high-sulfur fuel oils
0776 15 Evaluation of the native hydraulic characteristics of the felix coal (Eocene, Wasatch formation) and associated strata, Hoe-Creek site, Campbell County, Wyoming

STONE, JB
0279 187 Calcium carbonate deposit formation during the liquefaction of low rank coals

STONE, JD
0480 3 The use of continuous miners in South-African coal mines
0480 4 The selection and performance of continuous miners at Matla coal

STONE, RL
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0579 90 Inhibition of pyrite weathering by recycling of selected effluents

STONE, RR
0381 45 Sulfur removal from Texas lignite using steam and air

STONEMAN, WC
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

STONER, JD
0481 5 Horizontal anisotropy determined by pumping in two Powder River Basin coal aquifers, Montana

STONESTREET, N
0478 89 The Panel No. 6 Project: Latest developments in hydraulic coal mining at Kaiser Resources Ltd., Sparwood, B.C.

STONNER, HM
0180 116 Process of scrubbing polyvalent phenols from gas

STORCH, HH
1052 2 Second Conference on the origin and constitution of coal

STORCK, A
0676 31 Fluidization technology, volume 1

STORRS, KL
0280 159 Process and apparatus for separating and recovering liquid products from solid and liquid substance

STOTLER, HH
0173 12 Symposium papers, Clean fuels from coal

0279 105 Status and plans of H-coal pilot-plant

STOTON, J
0679 146 Fluidized beds for coal burning

STOTSKIY, GI
0677 149 Carbon-dioxide magnetohydrodynamic laser

STOUDT, RA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

STOUT, MG
1080 55 Interaction between deformation, fracture initiation and fracture propagation in two phase Co-CoAl alloys

STOUT, WL
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

STOVER, EL
0581 84 Synthetic fuel effluents

STOVER, NS
0681 155 Combustion performance and sulphur capture during fluid bed combustion of a western sub-bituminous coal and an eastern bituminous coal

STOVER, SE
0579 110 Summary of gas stream control technology for major pollutants in raw industrial fuel gas

STOVER, WA
0281 188 Catalyzing the energy balance of cat cracking

STOWE, DH
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

STOWE, RA
0282 40 Upgrade F-T liquids to olefins and aromatics

STRACHAN, R
0427 0 The coal mining industry of Western Canada

STRADLEY, D
0479 224 Surface mine rescue teams

STRAKEY, JP
0173 12 Symposium papers, Clean fuels from coal
0177 90 Coal processing technology, Volume 3
0177 301 Deacitvation of Raney nickel methanation catalyst
0177 304 Decomposition characteristics of phenol under synthane gasifier conditions
0178 33 Major, Minor and trace-element balances for the synthane PDU Gasifier - Illinois No. 6 coal.
0178 110 Oxidative pretreatment of Illinois No. 6 coal: Material and energy balances
0179 256 Mathematical modeling of synthane gasifier
0179 269 Treatment of coal gasification wastewaters by adsorption with gasifier chars
0577 91 Synthane gasifier effluent streams

STRAKHOV, VM
1080 171 Physicochemical properties of lean coal as a carbonaceous reducing agent

STRAND, JW
1081 19 Compositional studies of coal tar by capillary gas chromatography/mass spectrometry

STRAND, RH
0181 176 Environmetrics of synfuels: I. Processing the automated PDP-11 data components for the UMD gasifier facility

STRASSER, JD
0173 12 Symposium papers, Clean fuels from coal

STRASZHEIM, WE
0381 83 Evaluation of the removal of organic sulfur from coal

STRATTON, A
0178 46 Coal as a raw material for the chemical industry
1178 12 Fuels and chemicals from coal - Some energy and resource implications for the United-Kingdom

STRAUB, WA
0880 38 The use of chemical tracers to detect the presence of FCA on treated coal

STRAUGHAN, I
0580 148 Utilization and disposal of fly ash and other coal residues in terrestrial ecosystems: A review

STRAUGHAN, IR
0578 95 Impact of solid-discharges from coal usage in the southwest
0581 10 Fly ash-derived strontium as an index to monitor deposition from coal-fired power plants

STRAUSS, W
0375 3 Agitator-Flotation cell for dressing minerals and coal

STRAUSS, PG
0976 0 Coal Exploration

STRAUSZ, OP
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
1080 47 Analysis of Cold Lake bitumen hydrocarbons by combined GLC-field ionization mass-spectrometry and GLC-electron impact mass-spectrometry

STREBIG, KC
0476 18 Wethead dust control

STREET, PJ
0681 33 Spontaneous combustion in beds of small fuel particles
1079 136 Studies of spontaneous combustion in beds of activated carbon

STREETER, RC
0177 92 Recent developments in fluidized-bed methanation research
0180 148 Ruthenium catalysts improve methanation
0181 171 Combined shift and methanation in a fluidized-bed reactor, Final Report, September 1979 - December 1980

STREETS, D
0581 61 Analysis of industrial boiler solid waste impacts

STREHLOW, RA
1078 6 Submicron-sized mineral component of vitrinite

STREKALOV, NV
0678 97 Results of tests and studies of American materials in the channel of the MHD facility U-02, (phase III)

STREMLAW, AJ
0677 67 Estimated prices for thermal generating stations

STRICKLAND, LD
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 84 Design considerations for an in-situ gasification test of Eastern bituminous coals
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 85 Initial results from a linked-vertical-well field test in bituminous coal
0179 99 Pricetown-I - Instrumentation and preliminary data
0681 18 Development of pressurised fluidised combustion for combined cycle plant

STRICKLAND, RF
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 186 Analysis of geological limitations to underground coal gasification

STRICKLER, DB
0180 57 Hot gas cleanup by a confined-vortex scrubber

STRICKLER, DW
1078 172 A mounting medium for coal particles

STRIGUTSKII, VP
1079 243 The extraction of peat bitumens

STRIMBECK, DC
0177 127 High pressure rotary piston coal-feeder

STRINGER, J
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0181 205 Limitations on the use of alloys in coal gasifiers for power generation
0677 118 High temperature corrosion in fluidized-bed combustion
0678 10 Materials problems and opportunities in coal conversion systems
0679 67 High temperature corrosion in fluidized-bed combustors
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 239 Assessment of hot gas clean-up systems and turbine erosion/corrosion problems PFBC combined cycle systems
0681 220 Alloy corrosion in an atmospheric fluidized bed coal combustion test unit

STRINGFELLOW, TE
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

STROBEL, B
0280 46 New coal hydrogenation process: proven effective by three-year experimental plant experience

STROH, JG
1082 38 Aryl-alkyl groups in coals

STROM, SS
0180 77 MHD/steam electrical power production - a status report
0180 78 Coal Technology '80
0677 160 6 feet by 6 feet FBC development facility
0678 42 Controlling nitrogen oxides (NOx) from a coal-fired MHD process
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation
0680 61 Description of the DOE coal-fired MHD facility (CFFF)
0680 192 Description of the DOE MHD coal-fired flow facility (CFFF)
0681 95 MHD/steam electical power production - A report

STROUD, HJ
0177 5 Future Processes for the Production of SNG
0180 119 Production of substitute natural gas
0180 271 Towards the new gasification era - a perspective from 1980

STROUD, SG
1078 12 Aliphatic structures in coal
1078 55 New method for elucidating the structures of coal

STROUF, O
0281 310 Modelling of the catalytic Fischer-Tropsch synthesis by pattern recognition, chemisorption and dissociation of carbon monoxide on metals

STROUPE, RC
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

STRUCK, RT
0267 1 Mechanism of the hydrogen-transfer process to coal and coal extract
0271 2 A synthetic fuels process
0276 66 Zinc-chloride coal liquefaction process
0277 125 Zinc-halide hydrocracking process for distillate fuels from coal, Annual technical progress report for 1976, Including the quarter ending January 1977
0278 145 Zinc-halide hydrocracking process for distillate fuels from coal, Annual Technical Progress report, Feb. 1977 - Jan. 1978
0279 36 Zinc-halide hydrocracking process for distillate fuels from coal. Annual technical progress report for February 1978 - January 1979
0279 158 Regeneration of 'spent' ZnCl//2 production catalyst from hydrocracking subbituminous coal
0279 235 The zinc chloride process for the hydrocracking of coal
0280 49 Gasoline from coal via molten zinc chloride hydrocracking
0280 108 Zinc chloride process for the hydrocracking of coal
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979
0281 130 Hydrocracking of coal to light distillate with molten zinc chloride

STRUNGIS, SW
0179 92 Low and medium-BTU gasification - A chemical industry perspective

STRUSS, RG
1078 13 Determination of sulfur and moisture in coal using capture gamma-rays

STUBINGTON, JF
0680 180 The role of coal volatiles in fluidized bed combustion

STUCKY, GD
0280 209 Alumina-supported tungsten-and molybdenum-trismium clusters as carbon monoxide hydrogenation catalysts

STUDIER, MH

0279 196 Characterization of hydrolytically solubilized coal
1077 40 Oxidative degradation studies of coal and solvent-refined-coal
1078 57 Trapped organic compounds and aromatic units in coals
1078 121 Characterization of organic acids trapped in coals
1079 104 Lignin-like polymers in coals
1080 17 Characterization of a complex mixture of aromatic and heterocyclic acids obtained from oxidation of lignite coal and its solvent-refined products
1081 82 Aromaticities of various coals measured by reaction with fluorine and TGA-DTA studies of the reaction products
1081 171 Structural characterization of coal: Lignin-like polymers in coals

STUERMER, DH
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 60 UCG environmental research - summary and suggested projections

STUIVER, JC
0181 81 Potassium-catalyzed gasification of carbon with steam: a temperature-programmed desorption and fourier transform infrared study

STUKEL, J
0175 31 Flue-gas desulfurization and low-Btu gasification: A comparison - Appendix G

STUMM, W
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

STUPIN, WJ
0178 214 Comparison of acid-gas removal processes, Final Report

STURM, GP
0280 218 The composition of liquids from coals of different rank
0281 236 The composition of liquids from coals of different rank

STURM, KA
0177 256 Proceedings of the third annual underground coal conversion symposium
0180 146 Remote induction sounding of Hanna underground coal burn II, phase 1, employing pseudonoise/cross-correlation techniques

STYRIKOVICH, MA
0677 228 MHD A study of the processes resulting from the use of alkaline seed in natural-gas fired MHD facilities. U.S.-U.S.S.R. cooperative program in MHD power generation

STYRING, RE
0182 41 Process improves acid gas separation

STYRON, CE
0581 75 Assessment of the radiological impact of coal utilization II. Radionuclides in Western coal ash

SU, FC
0776 13 Seismic effects of faulting in coal seams: Numerical modeling

SU, FY
0178 228 Analysis and interpretation of laboratory coal gasification simulation data
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 108 Reverse combustion link phenomena in bituminous coal at high pressure

SUBKLEW, G
0179 297 Overview of the laboratory work in Aachen in the field of underground coal gasification

SUBRAMANIAM, TK
0170 2 The Effect of accounting factors on the economics of synthetic pipeline-gas
0171 1 Electrothermal Hygas Process, Escalated Costs
0176 15 Winkler technology for clean-fuels from coal
0177 37 Pressure reaction cuts gasification costs

SUCCOP, DC
0178 177 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual report, June 1977 - May 1978
0280 129 Research and development of an advanced process for conversion of coal to sythetic gasoline and other distillate motor fuels, final report

SUCHANEK, M
1080 113 Analysis of coal asphaltenes by carbon-13 Fournier transform nuclear magnetic resonance spectrometry

SUCHKOV, VV
1078 154 Study of the composition of the acid part of refined brown-coal wax

SUCRE, L
1079 119 Polynuclear aromatic hydrocarbons associated with coal combustion

SUDBURY, JD
0174 14 Carbon-dioxide-acceptor gasification process
0178 272 Coal processing technology, Volume IV
0178 286 Phase 1: The pipeline gas demonstration plant. Technical support program report

SUDHA-DIXIT, BP
0180 164 Catalysis by multimetallics. Catalyzed homogeneous oxidation of alcohols, ketones and triphenylphosphine with molecular oxygen in the presence of hexarhodium dodecacarbonyl and dirhenium decacarbonyl

SUEK, DC
0477 48 Colorado coal analyses, 1975 (Analyses of 64 samples collected in 1975)

SUESCUN-GOMEZ, D
0778 22 Coal resources of the Americas. Selected papers

SUETSUGU, Y
1081 106 Modifying ability of QI-free coal-tar pitch to develop optical anistropy in co-carbonizations

SUEYASU, M
0181 124 Coal gasification process by Sumitomo metals

SUGANO, H
0681 188 Coal Technology '81, Vol. 3

SUGIMOTO, T
1080 140 Simple and improved methods of viscosity measurements for pitch

SUGIOKA, M
0280 204 The catalytic desulfurization of organic sulfur compounds over zeolite catalysts

SUGITA, Y
0581 68 State of the art in desulfurization system for preventing environmental pollution caused by flue-gas from coal fired power stations
0678 108 Operation results of the IHI-chemico flue-gas desulfurization system for coal-fired utility power stations

SUGIYAMA, S

0676 31 Fluidization technology, volume 1

SUH, NP
0678 263 Scientific and technical problems in erosive wear

SUHR, H
0380 143 Elimination of sulfur by plasma techniques

SUHR, N
1073 18 Major, minor, and trace-elements in the liquid product and solid residue from catalytic hydrogenation of coals
1080 24 Analysis of kaolinite in coal by infrared spectroscopy
1081 34 Reliability of determinations of pyritic iron in coals using standard procedures

SUHRBIER, KM
0182 10 Isolation of mutagenic aromatic amines from a coal conversion oil by cation exchange chromatography

SUIDAN, MT
0181 244 Anaerobic activated carbon filter for the treatment of phenol-bearing wastewater

SUKALSKI, W
1077 54 Comparison of solvent-refined-lignites with solvent-refined bituminous coals

SUKHORUKOV, VI
0379 73 Substance composition and thermogravimetric investigation of the classes of a coal charge
0679 134 On the thermal stability of primary tar

SUKHORUKOVA, EA
0181 197 Control of the processes of thermal polycondensation of hard-coal tars and pitches and their components

SUKHOV, VA
0677 78 Question of initiation in the oxidation of brown coal by oxygen
0681 104 Products of the thermal degradation of brown coal modified with calcium hydroxide
0681 121 A thermochemical investigation of the low-temperature oxidation of heat-treated coals
1077 94 Change in the yield of humic acids on the oxidation of brown-coal with oxygen
1078 148 Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process
1080 96 Features of the thermal degradation of modified brown coals
1080 166 Solubility of the products of thermal degradation of modified brown coals
1081 116 Influence of water on the tendency of heat-treated brown coals to undergo oxidation

SUKHOV, VN
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

SUKIGARA, M
0280 22 Improved method to alkylate Yubari coal of Japan using molten potassium under refluxing THF

SUKURS, RO
0476 30 Symposium for Continuous Mining in Open Pit Mines Planning and Facilities of storage yards coal preparation and gasification

SULIMMA, A
0176 61 Use of process computer in coal gasification

SULLIVAN, M
1081 111 Cross-polarization magic-angle spinning 13//C NMR spectra of coals of varying rank

SULLIVAN, AM

0181 69 Energy parks burn coal efficiently
0379 26 United-Kingdom computerizes coal prep plants
0380 161 Australian prep process challenged
0381 27 Utilities may clean coal to meet NSPS
0478 138 Satellite photos trace unstable mine roof
0478 153 Slots built with reinforced earth
0478 253 Operators fight longwall dust
0479 90 Methane labeled as gas resource
0480 101 Anthracite seeks developing markets
0481 100 Women endure job-related sexual abuse
0481 108 Perceptive strategies win the game
0482 28 If the shoe doesn't fit - wear it anyway
0482 36 Job market outlook for M.E. graduates
0679 62 MHD coal power goes on the grid
0679 75 Dirty coal burns clean in fluidized-bed
0680 91 Coal heats homes as oil prices rise
0879 12 Leasing fights coal car shortages
0881 18 Great Lakes move U.S. export coal
0881 19 Coal moves through Morehead City
1182 16 Foreign investors bank on U.S. coal

SULLIVAN, DA
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

SULLIVAN, EA
0380 40 The release of vanadium from Athabasca oil-sands cokes by leaching techniques

SULLIVAN, GV
0180 219 Characterization of residues from selected coal conversion processes

SULLIVAN, JA
0180 248 Flash pyrolysis and gasification of coal through laser heating

SULLIVAN, KM
0577 67 Assessment of a laboratory technique for predicting the precipitability of fly-ash derived from a coal bore core

SULLIVAN, LD
0680 208 Coal-fired open cycle MHD combustion plasmas: Chemical equilibrum and transport properties workshop results

SULLIVAN, MJ
1081 190 C-13 NMR on solid samples and its application to coal science
1082 22 Carbon-13 nuclear magnetic resonance characterization of coal macerals by magic-angle spinning
1082 45 Structural resolution in the Carbon-13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic-angle spinning
1082 46 Spin dynamics in the carbon-13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic-angle spinning

SULLIVAN, RA
0181 223 Technology and use of lignite, Vol. 1 and 2

SULLIVAN, RF
0180 69 Converting SRC-II process product to transportation-fuel
0278 142 Refining and upgrading of synfuels from coal and oil-shales by advanced catalytic processes. Final interim report, Processing of Paraho Shale-Oil
0279 227 Refining and upgrading of synfuels from coal and oil shales by advanced catalytic process - Second Interim Report Laboratory and Pilot Plant studies of the processing of SRC-I

0279 228 Refining and upgrading of synfuels from coal and oil shales by advanced catalytic processes - Quarterly Report - April-June, 1979
0280 365 Catalytic hydroprocessing of SRC-II and H-coal syncrudes for BTX feedstocks
0281 238 Catalytic upgrading of SRC-II syncrude
0281 239 Catalytic upgrading of H-Coal syncrudes

SULLIVAN, RM
0981 3 Carboniferous drilling project

SULOWAY, JJ
0580 182 Chemical and biological characterization of leachates from coal solid wastes
0681 38 Coal fly ash: a review of the literature and proposed classification system with emphasis on environmental impacts

SULTANBAEVA, NA
1079 233 A study of oxidative ammonolysis of Maikubenskii coal

SULZBERGER, VT
1177 15 Evaluation of offshore site for wind energy generation
1177 21 The potential for application of energy storage capacity on electric utility systems in the United-States - part II

SUMARIA, VH
0677 37 Dynamic modeling of fluidized-bed boilers for control system design
0678 25 Preliminary controller evaluation for the MERC/CTIU using a mathematical process model

SUMERS, D
0479 117 Recent advances in water jet coalmining

SUMMERFIELD, M
0176 57 Pyrolysis

SUMMERS, CW
0280 348 An integrated system for coal-methanol liquefaction and slurry pipeline transportation, Final Report
0380 162 Assessment of the standard method of test for the grindability of coal by the Hardgrove machine

SUMMERS, DA
0181 142 Potential advantages to water jet drilling for use in in-situ coal gasification processes
0477 60 Consideration in the development of a water-jet-cutting-head
0477 64 Model studies of subsidence and ground movement using laser-holographic-interferometry.
0478 20 Testing of the prototype hydrominer in a surface coal seam
0478 233 Use of high pressure water jets in the mining industry
0479 194 Recent advances in water jet coalmining
0479 253 The development of a round the corner drill
0480 61 Water jet drilling horizontal holes in coal
0480 168 The application of high pressure water jets to longwall mining

SUMMERS, WA
0480 168 The application of high pressure water jets to longwall mining

SUN, CC
0580 163 Fluid-bed combustion and gasification solids disposal
0675 6 Fluidized-bed combustion process evaluation
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SUN, J-Y
0381 46 Process for removal of sulfur and ash from coal
0381 98 Process for removing sulfur from coal

SUN'KO, AV
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin

SUNAMI, Y
1079 263 Utilization of petroleum pitch in metallurgical coke manufacturing

SUNAVALA, PD
0180 157 Thermodynamics of coal gasification with steam and oxygen
0677 240 Downjet combustion of solid fuels

SUNDARAM, SP
1077 44 Photochemistry hydrogen atoms as a structural probe of the surface of coal

SUNDARARAJAN, R
1081 65 New method of calculating calorific values from elemental compositions of fossil fuels

SUNDARESAN, S
0179 200 Studies in char gasification - 1. A lumped model
0179 201 Studies in char gasification - 2. The Davidson-Harrison two-phase model of fluidization
0179 202 Studies in char gasification - 3. The combustion zone
0179 203 Studies in char gasification - 4. Multi-stage char gasifier
0179 204 Studies in char gasification - 5. Ash recirculation model

SUNDBERG, DG
1077 70 Surface properties of coal

SUNDSTROM, DW
0175 83 Kinetics of the activated carbon-steam reaction

SUPP, E
0280 55 Methanol from coal uses proven steps

SUPRUNENKO, OI
1078 163 Calculation of the yield of volatile matter by the methods of petrography
1080 168 Analysis of the structure of the charge of byproduct coke works according to the parameters of a petrological-geochemical classification of coals

SUR, GN
0679 79 Design of coal-fired boilers

SURETTE, WE
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

SURINOVA, SI
0178 390 Modern methods of obtaining hydrogen
0578 82 Use of natural coals for the purification of industrial effluents containing emulsified oils

SURLES, T
0580 65 Consequences of increase coal utilization

SUSCO, DM
0279 99 Viscosity, calorimetric, and proton-magnetic-resonance studies on coal liquid fractions in solution.

SUSSMAN, DB
1177 6 The utilization of solid-wastes for the generation of electric-power

SUSU, AA
0280 176 Novel pyrolytic decomposition of n-eicosane with synthesis gas and potassium-carbonate - catalyzed shift reaction

SUTCLIFFE, DA
0478 106 Successful applications of NDT techniques to mining equipment maintenance

SUTCLIFFE, PT
0681 180 Materials problems in fluidized-bed combustion systems

SUTHERLAND, WH
0476 29 Second Institute on Coal Mine Health and Safety

SUTTERFIELD, D
0280 289 Hydrotreatment and biological test of SRC-II coal liquid
0281 240 Hydrotreatment and biological test of SRC-II coal liquid

SUUBERG, EM
0177 130 Basic studies of coal pyrolysis and hydrogasification, Quarterly Progress Report for the period Jan. 1977 - March 1977
0178 376 Product composition and kinetics of lignite pyrolysis
0182 8 Gas evolution during rapid, low-temperature pyrolysis of a North-Dakota lignite
0278 222 A comparison of the rapid pyrolysis of a lignite and a bituminous coal
0680 38 Product compositions in rapid hydropyrolysis of coal
0680 135 Modeling the devolatilization behavior of a softening bituminous coal

SUVOROV, BV
1079 233 A study of oxidative ammonolysis of Maikubenskii coal

SUVOROV, VN
0379 82 Enhancing drying drum performance

SUWAL, G
1077 19 Comparison of nuclear and coal power plants using net energy analysis

SUYDAM, CD
0378 15 Economic evaluation of washed coal for the four corners generating station

SUZAWA, A
0681 147 Operation of coke oven with coal preheated by precarbon system

SVEC, HJ
0678 223 Organic emissions from combustion of combination coal/refuse to produce electricity

SVENSON, D
0477 120 Drilling equipment and techniques in Australian coal exploration
0477 121 Planning of exploratory drilling programs, logging and sampling of exploratory drill holes for coal

SVERDLIN, VA
0179 313 Binders of non-hard coal origin

SVERDRUP, EF
0673 28 Gas-turbines for fluidized-bed boiler combined-cycle power plant
0675 6 Fluidized-bed combustion process evaluation

0677 112 Corrosion/deposition in fluidized-bed combustion power-plant systems

SVNEDSEN, WW
0976 0 Coal Exploration

SVOBODA, K
0681 3 Influence of temperature on incipient fluidization of limestone, lime, coal ash, and corundum

SVRCEK, WY
0379 60 Metal recovery from coal-ash via chlorination - a thermodynamic study
0682 4 High-temperature chlorination of coal ash in a fluidized bed. 1. Recovery of aluminum
0682 5 High-temperature chlorination of coal ash in a fluidized bed. 2. Recovery of iron, silicon, and titanium

SVYATETS, IE
0379 97 The chemically bound moisture of brown coals
0380 154 Change in the porous structure and technological properties of brown coal in the drying process
1077 81 Sorption capacity of brown-coals

SWABB, LE
0178 354 Coal gasification and liquefaction in perspective
0278 9 Liquid-Fuels from coal, from R & D to an industry

SWADESH, R
1080 196 The nature and composition of coal humic acids

SWAIN, HA
0474 3 Fifth Symposium on Coal Mine Drainage Research

SWAINE, DJ
1077 9 Trace-elements in coal
1080 218 Nickel in coal and fly ash

SWAMINATHAN, S
0279 194 Catalytic cracking of hydrotreated coal-derived liquids (hydro-CDL) and related polycyclic naphthenes

SWAMY, YV
0382 1 Auto-desulphurization of coal

SWAN, MJ
0382 7 Improvement in coal preparation - water clarification through polymer flocculation

SWANSON, AR
0277 85 Some fundamental aspects of the selective agglomeration of fine coal
0377 13 Effect of Agitation on Quality of selectively agglomerated fine coal
0378 53 Influence of feed size distribution on the staged flotation of poorly floating coals
0379 20 Pilot-scale treatment of coal preparation plant effluent by the selective agglomeration process
0379 51 Flotation circuits for poorly floating coals
0380 95 Treatment of coal slurries
0381 113 Circuit design considerations for the froth flotation of problem coals
0678 243 Convenient index for the assessment of coal-cleaning processes
0681 193 The economic value of coal for coal fired power stations

SWAROOP, R
0176 103 Ceramic coatings for components exposed to coal-gas environments: A review
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0178 201 Evaluation of ceramic refractories for slagging gasifiers: Summary of progress to date

SWART, JS
0281 249 Sasol upgrades synfuels with refining technology

SWARTZ, GB
0177 256 Proceedings of the third annual underground coal conversion symposium

SWARTZMAN, E
0359 0 The cleaning characteristics of Vicary Creek mine fines
1055 3 Summary of F.R.L. Report No.-203 entitled, size distribution of Canadian mine run and slack coals in relation to size specification
1056 1 Study of the Gieseler Plasticity Test with special reference to A seam Michel coal
1059 4 Relationship of various factors to the quality of coked briquets made from mixtures of coking coals and inert material

SWEENEY, M
1081 100 Comparative studies in the ozonolysis of lignin and coal

SWEENEY, TL
0682 44 Simulation of particulate removal in gas-solid fluidized beds

SWENSEN, RF
0277 35 Characterization of coal liquids

SWENSON, EL
0681 181 Pilot-scale development of a low-NO//x coal-fired tangential system

SWIFT, R
0481 3 Safety in the mine environment

SWIFT, HE
0276 62 Catalytic reactor
0280 160 Novel fuel compositions comprising upgraded solid and/or semi-solid material prepared from coal
0280 172 Make petrochemical feedstocks with coal liquefaction
0280 185 SRC-II is a promising petrochem feedstock source
0281 292 Filtering coal liquids: Hydrogenation of distillate feedstocks
0281 355 Chemicals from coal
0282 124 SRC-II: A source of ethylene

SWIFT, WM
0178 248 Dust removal from hot and compressed-gas streams by fibrous and granular-bed filters: a state-of-the-art review
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0677 39 Reducing the environmental impact of solid wastes from a fluidized-bed combustor
0677 175 Sulfated limestone regeneration and general FBC support studies
0678 88 Testing of a pulsed L-valve feeder for use in fluidized-bed combustion and sorbent regeneration units
0678 133 Regeneration of sulfated dolomite by reductive decomposition with coal in a fluidized-bed-reactor
0680 153 Process costs and flowsheets, bed defluidization characteristics, stone reactivity changes and attrition losses for a regenerative fluidized-bed combustion process
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

SWISS, M
0482 60 Five-decade plan for Polish coal mining

SWISSHELM, BA
0179 234 A mass and energy balance of a Wellman-Galusha gasifier

SWITUCHA, NM
1178 40 Comecon's mineral development potential and its implications for Canada

SWITZER, GW
0173 32 Method and apparatus for comminution of coal and other materials to ultrafine sizes

SYBERT, L
0381 89 Impact of coal cleaning on the cost of new coal-fired power generation - Final Report

SYCHEV, VV
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

SYED, SA
0680 216 A prediction method for coal-fired furnaces

SYKES, JA
0673 21 Power generation using the Shell gasification process

SYLVESTER, WR
0677 90 Improved thermal efficiency by control of factors affecting metal wastage in pulverized coal-fired steam generators

SYMONDS, DF
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar
0378 28 Coal prep sampling: An update
0381 6 A review of dry cleaning processes
0381 7 A review of dry cleaning processes

SYSKOV, KI
0678 245 Role of sorption in the sintering of carbonaceous materials
1079 193 Influence of some factors on the yield of coke from pitch-coke compositions
1080 97 Influence of the degree of compaction of carbonaceous compositions on the increase in the yield of coke due to the binder
1080 185 Infulence of the mechanochemical oxidation of coke-pitch compositions on the specific electrical resistance of carbon materials
1081 150 The theory of the caking of carbon compositions and coal charges

SYUNYAEV, ZI
0179 250 Reactivity of technical carbon

SYVERTSEN, EM
0476 21 Fourth Symposium on surface-mining and reclamation

SZABO, K
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal

SZABO, MF
0578 17 Environmental assessment of coal transportation
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979. Volume III. Particulate control devices

SZABO, TL
1081 235 A representative Poisson's Ratio for coal

SZARGUT, J
0681 100 Co-ordination of material and energy balances as a basis of combustion process optimization

SZCZUKA, AE
0478 195 Development of operational aids for improved dragline utilization, Volume 3, System manual for the dragline simulation model, Final Report
0478 196 Development of operational aids for improved dragline utilization, Volume 1, Final Report
0478 250 Development of operational aids for improved dragline utilization. Volume 2. System manual for the dragline display and information gathering system. Final report. Contractor - McDonnell Douglas Electronics Company
0479 193 Operational aids for improved dragline utilization

SZCZUROWSKI, A
0779 27 Longwall mining of coal seams in Poland

SZE, MC
0180 126 Production of pipeline gas from coal
0274 17 Coal liquefaction
0274 18 Coal liquefaction
0280 154 Separation of insoluble material from coal liquefaction product
0280 319 Advanced coal liquefaction processes emphasize low hydrogen consumption

SZE, ND
0580 0 Environmental and climatic impact of coal utilization

SZEGO, J
0679 197 Economics and concepts of industrial coal fluidized bed combustion in Brazil

SZEGO, GC
1171 1 The U.S. energy problem, Vol. 1, summary
1171 2 The U.S. energy problem, Vol. 2, appendices part A
1171 3 The U.S. energy problem, Vol. 2, appendices, Part B

SZEKELY, J
0166 0 A note on the reaction mechanism in the underground gasification of coal

SZEKELY, GA
0681 158 An investigation of slurry fuel combustion - Final Report

SZEKELY, SM
0477 160 Control and automation of hydraulic transportation for underground coal mines, Final Report
0879 33 Evaluation of alternate hydraulic transport concepts for coal haulage in underground mines - final technical report

SZELIGOWSKI, J
0581 97 Converting to coal: the problem of ash disposal an urban environment (the ocean disposal option)

SZENTGYORGYI, G
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal

SZEPVOLGYI, J
0282 137 A method for the chemical utilization of coal by liquid phase oxidation
0282 139 Method for the production of liquid carbon compounds from coal
0676 32 Fluidization technology, volume 2

SZEVERENYI, NM

1081 190 C-13 NMR on solid samples and its application to coal science

SZLADOW, AJ
0181 222 Long-range development for utility fuels
0182 108 Characterization of effluents from a fixed-bed gasifier
0278 73 The role of oxygen functional groups in the mechanisms of coal liquefaction
0279 213 Some aspects of the mechanism and kinetics of coal liquefaction - dissertation
0280 239 Studies on non-catalytic liquefaction of western Canadian coals
0280 268 Coal liquefaction fundamentals
0280 357 Some aspects of the mechanism and kinetics of coal liquefaction - technical report 3
0281 8 Models and activation energies for coal liquefaction reactions
0682 51 Prediction of boiler fouling by lignite ash
1071 0 The deterioration of caking properties during prolonged agitation of coal in water
1073 0 Storage of coal samples
1074 5 Behaviour differences between Carboniferous and Cretaceous bituminous coals of similar rank
1076 14 Gieseler fluidities and contents of reactive oxygen groups in caking-coals

SZPINDLER, GD
0675 0 Fluidized-bed combustion of low grade fuels

SZUBA, J
0280 250 Co-pyrolysis of coal

SZWAB, W
0176 112 Gas cleanup systems for application to the MERC stirred/fixed-bed gasifier. Preliminary assessment and process evaluation
0177 261 Fuel gas cleanup technology for coal gasification
0677 218 Particulate control for pressurized, fluidized-bed combustion

SZWILSKI, AB
0479 64 Experience with mine roadway steel arch supports in the United-Kingdom
0479 242 Stability of coal seam strata undermined by room and pillar operations
0480 43 Canada coal mining industry
0779 32 Mining developments in Alberta province, Canada

SZWILSKI, TB
0481 73 Influence of coal rib pillar width on the stability of strata around the face-end and gatehead in longwall mining

TABAKOFF, W
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0681 41 A new approach for erosion prediction due to fly ash
0779 1 Erosion study of different materials affected by coal-ash particles
1080 11 Study of metals erosion in high temperature coal gas streams

TABER, JJ
1074 2 Air-water relative permeability studies of Pittsburgh and Pocahontas coals

TABET, DE
0577 20 Reclamation of coal surface-mined land in New-Mexico

TABI, R
0279 224 Combined gas-steam turbine cycle using coal derived liquid fuel - a viable alternative to direct combustion of coal?

TABOR, PR

1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

TABOR, RL
1079 258 Novel approaches to a study of the fundamental organic chemistry of coal, Final report, September 1, 1977 - September 1, 1979

TACKETT, CE
0378 0 Greenwich Collieries: a variation in the art of Coal Washing by Jigs

TAE-IL, O
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

TAGER, SA
0380 72 Process for the production of alumina from mineral component of solid fuels
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

TAGEV, SA
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

TAGGART, IJ
0681 193 The economic value of coal for coal fired power stations

TAGLAUER, E
0281 298 Characterization of nickel (II) oxide-molybdenum (VI) oxide-aluminum oxide catalysts

TAHARA, T
0180 313 A feasibility study of manufacturing ultra-large pressure vessels for coal conversion application
0282 154 Liquefaction of subbituminous coals under apparently non-hydrogenative conditions

TAHERI, M
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

TAI, AS
0280 210 An economic parametric analysis of the synthetic fuel produced by a fusion-fisson complex

TAI, CY
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0377 51 Desulfurizing coal with alkaline solutions containing dissolved oxygen

TAILOR, SM
0181 131 Particle-to-fluid heat transfer in two phase flow in packed bed reactors: analytical model

TAITS, EM
0379 77 A study of the mechanism of the transformations of sulfide compounds of iron in Moscow coals during their thermal treatment
1081 122 Factors determining the properties of coal moldings from weakly caking hard coals

TAITS, SZ
0279 156 Optimization of the process of isolating indole from hard-coal tar fractions by liquid extraction

TAKADA, T
0679 193 Fluidized bed combustion of coal

TAKAHASHI, T
0180 132 Process and apparatus for purifying raw coal gas

0280 240 Relationship between coal characteristics and its reactivity on hydroliquefaction

TAKAHASHI, Y
0681 168 Development of pulverized coal fired low NOx PM burner

TAKAMI, N
0580 159 Ash handling system for coal-fired power plants

TAKANO, J
0678 141 Abatement of nitric-oxide emission in fluidized-bed combustion of coal

TAKARABE, A
0279 88 Solvolytic liquefaction of coals with a series of solvents

TAKEDA, S
0179 343 Low-btu coal char gasification by a pressurized two-stage fluidized bed - Sunshine project
0181 23 Coal char gasification in a two-stage pressurized fluidized bed

TAKEKAWA, T
1078 141 A cause of exothermic heat evolution in hydrogenolysis of coal

TAKEMURA, Y
0281 64 Hydrogenolysis of coal-related model compounds by carbon monoxide-water mixture

TAKESHITA, K
0279 88 Solvolytic liquefaction of coals with a series of solvents
0280 235 Coal liquefaction under atmospheric pressure
0281 125 Efficient liquefaction of Australian brown coal with a hydrogen-donating solvent under atmospheric pressure
0282 154 Liquefaction of subbituminous coals under apparently non-hydrogenative conditions
0282 200 Binderless moulding of green cokes delivered from solvent refined coal and ethylene tar pitch
1081 66 Mechanism of carbonization of a semi-anthracite
1081 78 Carbonization of an anthracene oil extract of Akabira (Japan) coal
1081 106 Modifying ability of QI-free coal-tar pitch to develop optical anistropy in co-carbonizations
1082 56 Carbonization of coals to produce anisotropic cokes. 1. Modifying activities of some additives in the co-carbonization of low-rank coals
1082 57 Carbonization of coals to produce anisotropic cokes. 2. Up-grading of modification activities of petroleum process residues and their correlation with structural parameters

TAKEUCHI, C
0279 136 Upgrading of residual oils by asphaltene conversion

TAKEUCHI, M
1081 95 Effect of air-oxidation on the pore-structure of coals and cokes or chars obtained from oxidized coals

TAKEYA, G
0276 89 Mechanism of high-pressure hydrogenolysis of Hokkaido coals (Japan). 1. Simulation of product distributions
0277 145 The effect of hydrogen pressure on the hydrogenation reaction of coal
1078 120 Studies of the structure of coal and coal hydrogenation process

TALBIERSKY, J
1081 12 Simple scheme for the estimation of concentrations of polycyclic aromatic hydrocarbons in tars

TALBOT, R
0580 116 Element flow in aquatic systems surrounding coal-fired power plants. Wisconsin power plant impact study

TALBOT, AF
0277 130 Research and development of an advanced process for the conversion of coal to synthetic-gasoline and other

distillate fuels

TALBUT, JW
0481 112 The surepower experiment at South-Leicester

TALLACKSON, JH
0679 49 Assessment of an atmospheric fluidized-bed coal-combustion gas-turbine cogeneration system for industrial application

TALLON, JT
0178 258 Experimental analysis of biological oxidation characteristics of hygas gasification wastewater
0180 61 Biological treatment of a coal gasification process wastewater
0578 120 Biological treatment of hygas coal gasification wastewater
0580 143 Biological treatment of synthetic fuel wastewater

TALMAGE, SS
0577 81 Humans: Metabolism and biological effects

TALTY, RD
0181 223 Technology and use of lignite, Vol. 1 and 2
0681 114 Performance characteristics of low-rank coals in atmospheric fluidized bed combustion

TALWALKAR, A
0176 45 Fluidization characteristics of coal gasification materials
0678 130 Fluidization correlations for coal gasification materials-minimum fluidization velocity and fluidized-bed expansion ratio

TALWALKAR, AT
0181 164 Preparation of a coal conversion systems technical data book
0280 324 Heat transfer in slurry preheaters for coal liquefaction plants

TAM, SS
0177 90 Coal processing technology, Volume 3
0375 5 The Battelle hydrothermal coal process
0577 65 Emissions from the combustion of hydrothermally treated (clean) coal
1177 16 Coal desulfurization by the Battelle hydrothermal coal process

TAMAI, Y
0178 13 Hydrogasification of liquid ammonia-treated coals - comparison of several Japanese coals
0178 168 Gasification of coals treated with nonaqueous solvents. 2. Effect of liquid ammonia treatment of gasification with hydrogen
0179 144 Gasification of coals treated with non-aqueous solvents. 4: Reactivity of coals treated with liquid-ammonia
0179 303 Scanning electron microscope study on the catalytic gasification of coal
0180 266 High pressure steam gasification of coal

TAMAKI, K
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives

TAMANUKI, S
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

TAMARU, K
0181 204 Recent progress in elucidating the mechanism of heterogeneous catalysis

TAMARU, T
0681 159 Flue gas treatment system for coal fired thermal power plants

TAMHANKAR, SS
0181 160 Kinetic studies on the reactions involved in the hot gas desulfurization using a regenerable iron oxide sorbent-I. Reduction and sulfidation of iron oxide

TAMPLON, VV
1081 177 Influence of the magnitude of the surface of leaning additives on the caking of coals

TAMURA, Z
0180 132 Process and apparatus for purifying raw coal gas

TAN, G
0277 35 Characterization of coal liquids
0278 229 Upgrading of coal liquids. Interim report. Hydrocracking of h-coal derived gas oils
0278 230 Upgrading of coal liquids. Interim report. Hydrotreating and reforming h-coal process derived naphthas
0278 231 Upgrading of coal liquids. Interim report. Hydrotreating and fluid catalytic cracking of h-coal process derived gas oils
0279 32 Upgrading of coal liquids: Annual report, January 1978 - January 1979
0279 83 Upgrade coal derived distillates

TAN, SH
0179 181 Picking coal deposits for in-situ gasification

TANABE, K
0182 16 Effect of SO//4**2- on catalytic activity of Fe//2O//3 for hydrocracking of coal
0282 11 Assessment of the activities of catalysts for the hydrocracking of coal by means of hydrogen evolution
0677 56 Technology and use of lignite
1079 120 Activity tests of various catalysts for hydrocracking of coals by means of high pressure differential thermal analysis

TANAINO, AS
0477 80 Computer solution of geometrical problems in open-cut mining

TANAKA, K
0179 21 Catalytic reduction of carbon-dioxide. 1. Reduction of carbon-dioxide with carbon-carrying potassium-carbonate

TANDANAND, S
0477 72 Mechanized Longwall Mining, A Review Emphasizing Foreign Technology

TANG, WC
0673 19 Fluidized-bed combustion utility power plants - Effect of operating and design parameters on performance and economics

TANIUCHI, M
0280 240 Relationship between coal characteristics and its reactivity on hydroliquefaction

TANNER, AB
0978 1 In-situ analysis of coal using a 252Cf-Ge(Li) Borehole-Sonde

TANNER, DJ
1081 225 Synthetic firelog incorporating binder made from liquid combustible by-product

TANNER, KI
0278 223 Chemical changes produced in coal through the action of Lewis acid catalysts
0281 93 Conversion of solvent-refined coal to liquid products in the presence of Lewis acids

TANO, T

0179 20 Gasification of coals treated with non-aqueous solvents. 5. Properties of coals treated with liquid ammonia

TANOUE, T
0181 124 Coal gasification process by Sumitomo metals

TANSEY, DO
0679 189 The Du Pont sequential blasting system

TAO, JC
0182 50 Oxygen-enriched anthracite gasification
0279 232 Solid SRC - a building block
0281 141 Solid solvent refined coal - a building block

TAODA, K
0678 137 An experimental study of the combustion of coke-breeze in a fluidized-bed combustor

TAPP, JS
0480 184 Chemical flocculation in coal mine sediment ponds

TAPPING, RL
1077 100 An XPS study of the oxidation of pyrite and pyrites in coal

TARAFDAR, TC
1077 59 Devolatilization characteristics of carbonaceous solid fuels, with special reference to coal

TARAMINA, K
0681 100 Co-ordination of material and energy balances as a basis of combustion process optimization

TARASENKO, AP
0480 170 Automation of charge distribution over the sections of a coal bunker

TARASOV, BG
0478 302 Effect of antipyrogens on the activity of coal from the Benzymyannyi seam

TARBELL, JM
0582 25 A kinetic model of nitric oxide formation during pulverized coal combustion

TARKI, HT
1079 59 Kinetic expressions for coal char-gas reactions

TARMAN, PB
0177 117 Slurry pumping techniques for feeding high pressure coal gasification reactors
0179 134 Hydrogen by the steam-iron process
0477 100 SNG production from peat

TARRER, AR
0178 272 Coal processing technology, Volume IV
0276 37 Effect of coal minerals on reaction rates during coal liquefaction
0276 43 Kinetics and solubility of hydrogen in coal liquefaction reactions
0276 50 High pressure liquid chromatographics studies of coal liquefaction kinetics
0276 90 Mechanisms of coal particle dissolution
0278 18 A dispersion model for the solvent-refined-coal process
0278 28 Effects of coal minerals on the hydrogenation, desulfurization, and solvent extraction of coal
0278 206 Studies in coal liquefaction with application to the SRC and related processes - final summary report, July 1976 - July 1978
0278 225 Characterization of solvent refined coal by high pressure liquid chromatography and other analytical techniques

0279 11 Particle size variation in the solvent-refined-coal process
0279 66 Further studies of catalytic activity of coal minerals in coal liquefaction 2. Performance of iron and SRC mineral residue, as catalysts and sulfur scavengers
0279 92 Further studies of the catalytic activity of coal minerals in coal liquefaction. 1. Verification of catalytic activity of mineral matter by model compound studies
0279 111 Selectivity improvement in the SRC process
0279 179 The selectivity of coal minerals and SRC residue ashes for hydrodesulfurization in the SRC process
0279 181 The effect of solvent quality on coal conversion
0280 35 Selectivity improvement in the solvent refined coal process: 1. Detailed first-stage reaction studies - coal mineral catalysis
0280 43 Iron and coal minerals as sulfur scavengers in coal liquefaction
0280 179 Pyrite-catalyzed hydrogenolysis of benzothiophene at coal liquefaction conditions
0280 192 Selectivity improvement in the solvent refined coal process. 2. Detailed second-stage reaction studies: Hydrotreating of coal liquids
0280 193 Selective action of hematite in coal desulfurization
0280 288 Hydrotreating of SRC I product - optimization of process variable space
0281 102 Coal solvolysis with a series of coal-derived liquids
0281 165 An investigation of the effect of air-oxidation on coal liquefaction
0281 199 Development of two stage coal liquefaction using a first stage disposable catalyst with second stage hydrotreatment
0281 205 The effect of pyrite catalysis on the kinetics of direct coal liquefaction
0281 243 Hydrotreating of SRC-I product. Optimization of process variable space
0281 288 Effect of mechano-chemical preteatment on coal liquefaction
1082 28 Identification of clay minerals in coal by selective cation saturation

TART, KR
0180 119 Production of substitute natural gas
0180 185 Fixed bed slagging gasification - a means of producing synthetic fuels and feedstocks
0181 38 Methanation key to SNG success

TASSICKER, OJ
0577 67 Assessment of a laboratory technique for predicting the precipitability of fly-ash derived from a coal bore core
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

TATE, E
0679 156 High slag rejection, high carbon conversion rate, air cooled cyclone coal combustor for MHD regenerative heat exchangers
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

TATE, JL
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TATEBAYASHI, J
0180 78 Coal Technology '80
0679 193 Fluidized bed combustion of coal
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

TATEISHI, T
0280 131 Method for preventing sedimentation of finely powdered coal in colliodal fuel

TATENO, M
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives

TATSCH, JH

0980 4 Coal deposits

TATTERSON, DF
0278 116 H-Coal fluid dynamics topical report, Part 1: Literature search
0279 27 H-coal fluid dynamics, annual technical report for the period August 1977 - August 1978
0280 45 Experimental techniques for studying the fluid dynamics of the H-coal reactor
0280 265 H-coal fluid dynamics - Study of ebullated bed fluid dynamics for H-coal - Final Report

TATUM, CB
0682 57 Coal-fired reference plants: project benefits

TAUCHERT, TR
0180 297 Thermal stresses in coal conversion pressure vessels built of layered construction

TAULBEE, D
0280 102 Compositional analysis of H-coal liquids

TAUNTON, JW
0278 38 Status and outlook of the Exxon donor solvent coal liquefaction process development
0278 43 Exxon donor-solvent coal liquefaction process development
0280 337 Bottoms recycle studies in the EDS process development
0281 151 Coal feed flexibility in the Exxon Donor Solvent coal liquefaction process

TAUPITZ, KC
0277 19 Making liquids from solid fuels

TAUXE, GW
0881 40 Relationships in the siting of power-plants, slurry pipelines, unit trains and other energy tranportation

TAVAKOLI, F
0582 6 The IIT flue gas desulfurization process

TAYLOR, B
0280 293 Synfuel stability: degradation mechanisms and actual findings

TAYLOR, G
0281 19 Coal liquids in Canada

TAYLOR, L
0276 90 Mechanisms of coal particle dissolution

TAYLOR, N
1082 74 Differential-pulse voltammetry at the Hanging-Mercury-Drop electrode for identification of aromatic structures in coal extracts

TAYLOR, T
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

TAYLOR, CD
0475 9 First Symposium on Underground Mining, Volume I
0477 45 Quantitating respirable dust-levels generated during longwall-mining operations
0482 62 How the six cleanest U.S. longwalls stay in compliance

TAYLOR, DA
0677 56 Technology and use of lignite

TAYLOR, DD
0680 134 Laboratory studies of submicron particles from coal combustion

TAYLOR, DE
0178 272 Coal processing technology, Volume IV

TAYLOR, DR
0580 176 Environmental effects of western coal combustion: Part IV - Chemical and physical characteristics of coal fly ash
0682 8 Analysis of fly ash produced from combustion of refuse-derived fuel and coal mixtures
1080 7 Oxidative transformations of polycyclic aromatic hydrocarbons absorbed on coal fly ash

TAYLOR, GH
0779 39 The response of coal to geologic stimulus

TAYLOR, GW
0279 38 Liquid fuels from Canadian coals

TAYLOR, HE
0480 46 Chainless haulage systems

TAYLOR, IC
0380 166 Treatment of solid fuels

TAYLOR, JH
0673 15 Sulfur retention in fluidized-beds of lime under reducing conditions
0681 7 An information system for the 80s

TAYLOR, JM
0178 89 Symposium on Coal Refining, Proceedings

TAYLOR, KE
0680 94 Coal burning issues: Atmospheric modifications

TAYLOR, LR
0579 117 Fly ash structural fill handbook

TAYLOR, LT
0278 13 Characterization of organic fractions in solvent-refined coal by quantitative N.M.R. Spectroscopy.
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0280 167 Gel permeation chromatography of coal-derived products with on-line infrared detection
0281 91 Trace metal distribution in fractions of solvent-refined coal by ICP-OES and implications regarding metal speciation
0281 156 Organically bound metals in a solvent-refined-coal: metallograms for a Wyoming subbituminous coal
0281 328 Development and application of analytical techniques to chemistry of donor solvent liquefaction - Quarterly Progress Report for the period July, 1981 - September, 1981
1077 53 Preparative GPC study of solvent-refined-coal and its acid-neutral-base components
1078 126 A 1-H and 13-C nuclear-magnetic-resonance study of the organic constituents in different solvent-refined-coals as a function of the feed coal
1079 87 Study of solvent-refined-coal by elevated temperature carbon-13 Fourier transform nuclear-magnetic-resonance spectrometry
1079 130 Size exclusion chromatography for the separation of whole coal liquids
1081 6 Fourier transform infrared spectrometric detection in size exclusion chromatographic separation of polar synfuel material
1081 136 Size exclusion chromatography of organically bound metals and coal-derived materials with inductively coupled plasma atomic emission spectrometric detection

TAYLOR, ME
0682 12 The CFB Summerside project Canadian state-of-the-art in AFBC boilers

TAYLOR, ND
0278 223 Chemical changes produced in coal through the action of Lewis acid catalysts
0280 28 Effects of Lewis-acid-catalysts on the cleavage of aliphatic and aryl-aryl linkages in coal-related structures

TAYLOR, PM
0781 9 Fault location by channel wave seismology in United-Kingdom coal seams

TAYLOR, RK
0279 52 Fine-grained colliery discard and its susceptibility to liquefaction and flow under cyclic stress

TAYLOR, RS
0781 27 Coal deposit modelling using computers

TAYLOR, RW
0173 13 Preliminary coal gasification experiments
0180 249 Solar coal gasification
0677 53 Silica vaporization and condensation: A potential source of fouling in coal combustion
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

TAYLOR, SR
0180 78 Coal Technology '80
0278 4 Nature of hydrogen bonding in coal-derived asphaltenes
0381 64 Sulphur removal from coal via hydrogen peroxide oxidation
0381 91 Surface chemical problems in coal flotation

TAYLOR, TA
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

TAYLOR, TB
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

TAYLOR, TE
0678 137 An experimental study of the combustion of coke-breeze in a fluidized-bed combustor
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

TAYLOR, WF
0177 157 Development of improved Fischer-Tropsch catalysts for production of liquid fuels
0178 292 Pre-methanation purification study: Removal of low concentration gaseous-sulfur compounds (catalyst poisons). Final report, July 1975 - July 1977
0281 40 Fischer-Tropsch synthesis on a precipitated iron catalyst

TAYLOR, WG
0180 289 Coal-derived fuel flexibility for today's combined cycles

TAZAKI, Y
0179 243 Gasification of coal char in a two-stage pressurized fluidized bed
0179 343 Low-btu coal char gasification by a pressurized two-stage fluidized bed - Sunshine project
0181 23 Coal char gasification in a two-stage pressurized fluidized bed

TEAGUE, JR
1080 176 An energy-saving separation scheme

TEAGUE, OE
0676 4 Coal combustion

TEALE, R
0478 18 Monitoring and control of machines and mining systems

TEATER, NR
0178 188 Preliminary market evaluation for gas produced by underground gasification of western coal, Final report

TEATS, FG
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0678 200 Evaluation of on-line light-scattering optical particle analyzers for measurements at high temperature and pressure

TEDFORD, CE
0276 77 Evaluation of flow measuring and control valve applications for coal liquefaction process streams for Cresap testing

TEEPLE, RV
0274 9 Demonstration plant, Clean-boiler-fuels from coal: Volume III. Preliminary design/economic analysis
0277 72 Preliminary economic analysis - oil and power by COED-based coal conversion
0278 101 Feedstocks from coal: How? When?

TEGGERS, H
0178 89 Symposium on Coal Refining, Proceedings
0180 311 The Rheinbraun high-temperature Winkler and hydrogasification processes
0181 219 Coal Technology '81, Vol. 4
0677 56 Technology and use of lignite

TEICHMUELLER, M
0774 3 Entstehung und Veranderung bituminoser substanzen in Kohlen in Beziehung zur Entstehung und Umwandlung des Erdols
0779 37 Diagenesis of coal (Coalification)
0780 13 Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence
1077 25 Application of fluorescence-microscopy in coal petrology and oil exploration

TEICHMUELLER, R
0779 37 Diagenesis of coal (Coalification)

TEICHNER, SJ
0282 191 Changes in the surface structure and composition of an iron catalyst of reduced or unreduced Fe//20//3 during the reaction of carbon-monoxide and hydrogen

TEJA, AS
0380 21 A corresponding states equation for saturated liquid densities. II. Applications to the calculation of swelling factors of carbon dioxide crude oil sytems

TELANG, SA
0580 120 The role of organic compounds in salinization of plains coal mining sites

TELEGIN, GP
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 97 Results of tests and studies of American materials in the channel of the MHD facility U-02, (phase III)
0678 98 Tests and studies of U.S.S.R. materials at the U.S. coal burning MHD facility UTSI-2

TELLIARD, WA

0477 94 Seventh Symposium on Coal Mine Drainage Research

TEMEEVA, LA
0279 130 Connection of the strength properties with the petrographic characteristcs of coals
0779 26 Investigation of the microfissuring of coals of different degrees of disturbance

TEMPELMEYER, KE
0676 13 Development program for MHD direct coal-fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1975
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 5 A description of the direct coal-fired MHD facility at the University of Tennessee Space Institute
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0678 159 U.S./U.S.S.R. cooperative program in open-cycle MHD electrical power generation. Joint test report No. 1. Initial Test of the U-25B facility: Shakedown Test No. 1 and MHD Generator Test No. 2

TEMPLE, R G
1180 15 Energy perspectives after oil and natural gas

TEMPLE, KL
0580 105 Occurence and activity of iron and sulfur-oxidizing microorganisms in alkaline coal strip mine spoils. Final report

TEMPLETON, D
1080 190 Compressive strength of a bituminous coking coal

TENDULKAR, S
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

TENNERY, VJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0678 74 Effects of alternate fuels. Report No. 2. Analysis of basic refractories degraded by residual oil combustion products

TENNYSON, RP
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

TENO, J
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

TEO, KC
0782 0 Oxidation states in surface and buried coal from the Fording River Deposit

TEODOSIU, G
0281 50 Development of a testing facility for direct hydrogenation of Canadian low rank coals
0281 338 Development of a testing facility for direct hydrogenation of Canadian low rank coals

TEPER, M
0180 213 The future supply of gas
0678 26 Alternatives for coal based power generation: An international overview
0679 195 The economics of advanced technologies for electricity generation from coal
1177 33 Economic and technical criteria for coal utilization plant. Part IV. Power generation
1177 34 Economic and technical criteria for coal utilization plant. Part I. Economic and Financial conventions
1177 35 Economic and technical criteria for coal utilization plant. Part II. Gasification processes
1179 14 The economics of coal-based electricity generation

TER-AKOPYANTS, LD
1080 122 The composition of the humic acids of brown coals of the Grachevka Deposit

TERENTYEV, EV
0976 0 Coal Exploration

TERHUNE, RW
0477 10 Permeability from Single and Multiple Detonations in Boreholes

TERICHOW, ON
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 30 Underground coal gasification via the LVW process
0178 57 Underground coal gasification can reach unminable energy

TERNAN, M
0281 36 Conversion of non-coking coals to coking coals by thermal hydrogenation
0380 12 Coal as an energy source in recovery and upgrading of Canadian heavy oils and tar sands
1080 157 Removal of metals and coke during thermal hydrocracking of heavy hydrocarbon oils

TERNOT, A
0182 81 Major problems, first results and projects of underground gasification of deep coal in France

TERRY, D
0180 78 Coal Technology '80

TERRY, R
0381 42 Why it pays to wash coal

TERRY, RC
0176 80 Methane from coal in-situ
0177 183 Minimizing environmental effects in production and use of coal
0181 62 Generating electricity from coal in situ
1077 102 Recovering uranium from coal in-situ

TERRY, RL
0380 116 Modular coal preparation plants gain industry acceptance
0881 48 Coal Technology '81, Vol. 2

TERSCHUREN, W
0179 297 Overview of the laboratory work in Aachen in the field of underground coal gasification

TERZIAN, HD
0275 24 Char oil, energy development, Volume I, Final report for the period Aug. 1971 - June 1975
0275 28 Char oil energy development, Volume II - Appendix B, computer program documentation, final report for the period August 18, 1971 through June 30, 1975
0574 16 Clean Fuels from coal by the COED process

TESARIK, D
0479 237 Evaluation of escape routes

TESARIK, DR
0481 162 Mine waste disposal technology

TESTA, G

0881 37 Coal transportation: an analysis of cost and energy requirements
0882 10 Coal transport chain: a cost and energy analysis of two technical systems: a slurry system vs. a conventional bulk transport system

TETER, JW
0255 0 Hydroforming reactions. Effect of certain catalyst properties and poisons

TETSUZO, H
0677 55 Nitrogen oxides produced in fluidized-bed combustion of carbonaceous materials

TEWARI, KC
0278 53 Characterization of coal-liquid fractions. Molar enthalpies of quinoline interaction with coal-derived asphaltenes and heavy oils
0278 208 Hydrogen bonding in asphaltenes and coal, Quarterly report, July 1 - September 30, 1978
0279 99 Viscosity, calorimetric, and proton-magnetic-resonance studies on coal liquid fractions in solution.
0279 198 Characterization of upgraded coal liquids
0281 112 Analysis of upgraded solvent-refined coal (SRC) liquid products
0281 113 Ageing of SRC liquids
0281 275 600-MHz proton magnetic resonance study of coal-derived liquids
1079 37 Molecular interaction of quinoline with coal-liquid fractions
1079 123 Influence of hydrogen bonding on the viscosity of coal liquids

TEWKSBURY, TL
0179 227 Utility gas from an agglomerating burner gasifier

TEXEIRA, DP
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

THAKKAR, P
0180 78 Coal Technology '80

THAKKAR, VP
0278 217 Kinetics of the hydrodenitrogenation of nitrogen compounds in a coal-derived oil - dissertation
0281 61 Hydrodenitrogenation of SRC-I recycle solvent: Catalyst screening and reactivity of nitrogen heterocycles

THAKUR, DN
1077 56 Microbial desulfurization of pyritic coal

THAKUR, PC
0477 12 How to plan for methane control in underground coal mines
0480 62 Horizontal drilling technology for advance degasification
0482 61 Horizontal drilling - a tool for improved productivity

THAKUR, SC
0182 28 The pyrolysis of a Wyoming coal in different nonreactive atmospheres

THAMES, BM
0278 33 Solvent-extraction of coal-derived products

THAMES, JL
0476 21 Fourth Symposium on surface-mining and reclamation
0477 19 Reclamation on the Black Mesa of Arizona
0479 258 Coal mine reclamation problems and practices in the Southwestern United-States
0482 6 Design of post mine topography to maintain hydrologic integrity of surface streams

THAXTON, LA

0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

THAYER, PS
0579 51 Health and environmental impacts of increased generation of coal ash and flue gas desulfurization sludges

THAYER, WL
0381 104 Selective oil agglomeration: an answer to fine coal treatment problems
0580 173 Integrally supported tubular cellulose acetate ultrafiltration membranes and design of an industrial module utilizing such membranes

THEIS, KA
0180 22 Generation of synthesis gas and reduction gas by gasifying brown-coal using the high temperature Winkler process
0180 311 The Rheinbraun high-temperature Winkler and hydrogasification processes
0181 219 Coal Technology '81, Vol. 4
0181 223 Technology and use of lignite, Vol. 1 and 2

THEODORE, L
0576 8 Energy and the environment. Proceedings of the fourth national conference
0678 211 Control technology for fine-particulate emissions

THEODORE, FW
0280 164 Process for making metallurgical coke
1081 85 Process for making metallurgical coke using fluidizer char

THEW, TW
0182 50 Oxygen-enriched anthracite gasification

THIAGARAJAN, V
0679 169 Gaseous electrode development - final report

THIBEAULT, PR
0181 179 Industrial application of C-E's coal gasification process - Final Report R&D Task 15 (Phase I) - Period January 1979-August 1980

THIEL, SW
0281 329 Technical and economic evaluation of selected coal liquefaction processes. Phase 0. Preliminary screening evaluations

THIEL, WJ
0178 122 Mixing of solids in slugging gas fluidized-beds
0676 32 Fluidization technology, volume 2

THIERY, RG
0681 38 Coal fly ash: a review of the literature and proposed classification system with emphasis on environmental impacts

THIMONS, ED
0478 26 Methane accumulations in coal mine roof cavities

THIRUMALAI, K
0478 88 Mandatory safety and health training of miners, provisions in the New Federal Act and a review of German, British, and Polish programs

THIRUNAVUKKARASU, R
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical

sessions, April 9-11, Atlanta, Georgia

THODE, EF
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0579 121 Costs of coal and electric power production-the impact of environmental control technologies for coal-cleaning plants
0581 86 Leaching experiments on coal preparation wastes: Comparisons of the EPA extraction procedure with other methods

THOEM, TL
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0579 7 Study of long range air pollution problems related to coal development in the Northern-Great-Plains
0678 40 Coal-fired power plant trace-element study
0681 188 Coal Technology '81, Vol. 3

THOI, HH
0181 59 Conversion of caking coal into non-caking coal by treatment with sulphur and sulphur dioxide

THOMAS, D
0479 137 Coal winding through the ages

THOMAS, G
0280 95 Kentucky oil shale studies
0280 103 Chloride analysis of SRC liquids from high corrosion distillation tower areas
0280 128 Distillation Tower Corrosion: Chemical analysis of solvent refined coal process samples for chloride, acidic and basic compounds

THOMAS, J
0180 145 Research needs for coal gasification and coal liquefaction
0277 108 Issues relative to the development and commercialization of a coal-derived synthetic liquids industry. Management Issues, Volume III-3. Availability of water for the development of a coal liquefaction industry. Final Report, January 1975 - - December 1976
0277 109 Issues relative to the development and commercialization of a coal-derived synthetic liquids industry. Management issues, Volume III-4. Steel requirements. Final report, January 1975 - December 1976
0277 110 Issues relative to the development and commercialization of a coal-derived synthetic liquids industry. Management Issues, Volume III-5. Manpower requirements. Final Report, January 1975 - December 1976

THOMAS, R
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

THOMAS, T
0681 188 Coal Technology '81, Vol. 3

THOMAS, DC
0376 11 Aqueous slurry of ash concentrate composition

THOMAS, GA
0580 45 Inorganic-classical analysis of energy resources

THOMAS, GE
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0476 22 Sixth Symposium on Coal Mine Drainage Research

THOMAS, GW
0676 0 Kinetics of Underground Combustion

THOMAS, JF
0176 93 Gasification in pulverized coal flames. First Annual progress report, July 1975 - June 1976
0177 180 Gasification in pulverized coal flames, Second annual progress report, July 1976 - August 1977
0177 222 Gasification in pulverized coal flames. Semi-annual progress report, July - December 1976
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 172 Coal and limestone feed testing for atmospheric fluidized bed combustion

THOMAS, KP
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

THOMAS, MG
0278 5 Coal-derived product effects on viscosity
0278 81 Effects of mineral matter on the hydroliquefaction of coal
0278 91 Sandia fossil-fuel analytical laboratory: Procedures used in coal liquefaction analyses
0278 95 Hydrogen consumption in non-catalyzed coal liquefaction
0280 183 Reduction of viscosity of coal-derived products using CO//2
0280 243 Method for the determination of catalyst selectivity in coal liquefaction
0280 269 The tagging of an H-coal PDU run
0280 328 Kinetics and mechanisms of the hydroliquefaction of coal: Illinois-No-6, Burning Star coal in SCR-II heavy distillate
0281 73 Studies on an aged H-coal catalyst
0281 76 Preliminary characterization of catalysts tested in the H-coal bench unit
0281 142 The application of radiation techniques to coal liquefaction
0281 200 The reversability of coal liquefaction
0282 112 Catalyst deactivation in the H-coal coal liquefaction process. 1. Catalyst residence time distribution
0282 144 Decomposition of pyrite under coal liquefaction conditions: a kinetic study
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

THOMAS, RA
0478 141 Underground mining equipment: Flexibility and productivity are still the watchwords

THOMAS, RD
0282 44 Assessing welding technology for coal conversion equipment

THOMAS, RE
0381 94 Use of coal cleaning for compliance with sulfur dioxide emission regulations

THOMAS, RH
0679 31 Dry-cleaning coal in a fluidized-bed medium - Report of Investigations

THOMAS, RL
0280 255 Alternate fuels for industrial combustion engines

THOMAS, SA
0481 52 Dynamic simulation of coal mine electrical power systems

THOMAS, VM
0477 95 Third Symposium on Underground Mining
0478 22 Monitoring and remote control - Progress towards automation in British coal mines, 1977
0480 36 Colliery aplications of MINOS: a standard computer system

THOMAS, WC
0177 74 Environmental assessment of low/medium-BTU gasification
0579 122 Environmental assessment: Source test and evaluation report - Wellman-Galusha (Glen Gery) low-Btu gasification

THOMAS, WE

0476 23 Second Symposium on Underground Mining

THOMASSON, DL
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky

THOMPSON, W
0679 103 Experiments on prevention and suppression of coal-dust explosions by bromochlorodifluoromethane and on prevention by carbon tetrachloride

THOMPSON, AS
0678 107 Instabilities in a coal-burning fluidized-bed

THOMPSON, BT
0379 4 Dry coal handling and feeding test facility feasibility study

THOMPSON, CJ
0276 48 Analyzing liquid products derived from coal conversion processes

THOMPSON, CL
0780 22 Application of automated image analysis to coal petrography
0782 6 Properties, origin and nomenclature of rodlets of the inertinite maceral group in coals of the central Appalachian basin, U.S.A.
1079 197 Distribution of elements in coal macerals and minerals: Determination by electron microprobe

THOMPSON, DR
0474 3 Fifth Symposium on Coal Mine Drainage Research

THOMPSON, DS
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 86 LLL 1979 field program
0182 62 Method for initiating an underground combustion process
0182 84 Technical underground coal gasification summation: 1982 status

THOMPSON, DT
0281 176 Liquid Fuels from Coal - Developments in the use of ruthenium catalysts for the Fischer-Tropsch Reaction
0281 308 Liquid fuels from coal: Developments in the use of ruthenium catalysts for the Fischer-Tropsch reaction

THOMPSON, GJ
0281 58 Comparison of reactor systems for indirect liquefaction via Fischer-Tropsch technology

THOMPSON, GP
1077 43 Electron-spin-resonance studies of coals and coal-derived asphaltenes

THOMPSON, JE
0277 53 Organics in aqueous process streams of a coal conversion bench-scale unit using the hydrocarbonization process: HPLC and GC/MS analysis

THOMPSON, PG
0479 210 Blaster training and certification program under public law 95-87

THOMPSON, PN
0175 7 Experience and plans of Britain in underground coal gasification
0178 47 Gasifying coal underground

THOMPSON, RE
0678 259 Assessment of current and advanced NOx control technology for coal-fired utility boilers

THOMPSON, RR
0475 10 First Symposium on Underground Mining, Volume II
0781 39 Relationship of coal maceral composition to utilization
1076 12 Coal composition and its influence on cokemaking

THOMPSON, TL
0881 20 Slurry pipelines, design, research and experience
0881 26 From Reynolds to Wasp - Development of an Industry
0882 6 Coal transportation - the economic alternatives

THOMPSON, TW
0175 73 In-situ conversion of Texas-lignite to synthetic-fuels
0177 9 Engineering Properties of Texas Lignite and Associated Rocks in Relation to the Stability of an in-situ Gasification Chamber
0177 58 Roof stability and subsidence in In-situ gasification of coal
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 171 Assessment of overburden stability in the in-situ gasification of Texas lignite
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

THOMSON, JS
0280 218 The composition of liquids from coals of different rank
0281 74 Preparative liquid chromatography for fractionation of petroleum and synthetic crude oils
0281 236 The composition of liquids from coals of different rank
0282 120 Liquid chromatographic separation of aromatic hydrocarbons with chemically bonded (2,4-dinitroanilinopropyl) silica

THOMSON, WJ
0179 189 Monolith catalyst favored for methanation
0277 132 Fluidization theories and applications
0279 215 Applied Fischer-Tropsch kinetics for a flame sprayed iron catalyst
0677 148 The effect of bubble behaviour on the scale-up of fluidized-bed heat-exchanger, Final Report

THORLEY, AR
0880 28 Transient propagation in slurries with hold-up

THORN, JS
0478 195 Development of operational aids for improved dragline utilization, Volume 3, System manual for the dragline simulation model, Final Report
0478 196 Development of operational aids for improved dragline utilization, Volume 1, Final Report
0478 250 Development of operational aids for improved dragline utilization, Volume 2, System manual for the dragline display and information gathering system, Final report, Contractor - McDonnell Douglas Electronics Company

THORN, RJ
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

THORNGATE, JH
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

THORNSJO, M
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

THORNTON, MW
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

THORPE, AN
0382 0 Ferromagnetic and superparamagnetic contamination in pulverized coal

1079 72 Basic magnetic properties of bituminous coal

THORSNESS, CB
0177 45 Results from an in-situ coal gasification experiment involving explosive fracturing: Hoe Creek Experiment no. 1
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 173 In-situ coal gasification: Model calculations and laboratory experiments
0178 244 A one-dimensional model for in-situ coal gasification
0178 282 Highlights of the LLL Hoe-Creek No. 2 underground coal gasification experiment
0178 325 Moving equilibrium front model for in-situ gasification
0178 401 The LLL computer system for in-situ coal gasification - Hoe-Creek II
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0178 408 A simple model for locating the front of a reverse-combustion link from thermocouple-response data
0179 86 LLL 1979 field program
0179 319 A laboratory coal gasifier facility
0180 28 Underground coal gasification experiment: Hoe Creek II
0180 114 Highlights of the LLL Hoe Creek No. 3 underground coal gasification experiment
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0180 231 Hoe Creek II Revisited: Boundaries of the gasification zone
0180 269 Results from the Hoe Creek No. 3, Underground coal gasification experiment
0182 84 Technical underground coal gasification summation: 1982 status
0182 88 The large block tests

THRELFALL, D
0481 9 Technical consideration for siting chemical wastes

THUEMMEL, HW
1082 81 Coal analysis by means of neutron-gamma activation analysis and x-ray techniques

THUNE, HW
0182 104 Subsurface detection of retort gases from an underground coal gasification reactor in steeply dipping beds near Rawlins, Wyoming

THURGOOD, JR
0178 272 Coal processing technology, Volume IV
0181 219 Coal Technology '81, Vol. 4
0282 132 The Rheological characterization of coal liquefaction preheater slurries
0679 176 Mixing and combustion of pulverized coal - dissertation
0680 41 Rate measurements in a laboratory-scale pulverized coal combustor

THURLOW, G
0281 6 Coal as a replacement for oil
0282 102 Turning coal to transport fuel: a future growth industry

THURLOW, GC
0277 132 Fluidization theories and applications

THURLOW, GG
0179 45 Manufacture of fuel-gas for power generation by fluidized-bed gasification of coal
0180 12 Producing fuels and chemical feedstocks from coal
0281 335 Adapting direct coal liquefaction to the Canadian scene
0677 113 Investigation of the corrosion performance of boiler, air heater, and gas-turbine alloys in fluidized combustion systems

THURMAN, AG

0477 57 The use of geological/geotechnical investigation as an aid to mine planning
0976 0 Coal Exploration

THURNAU, RC
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

THURSTON, DN
0478 249 Progress report on the Coal Valley mining project

THURSTON, RS
0280 264 Synfuels from Coal: Lessons from South-Africa

THURSTON, RV
0580 117 Environmental effects of Western coal combustion: Part III - The water quality of Rosebud-Creek, Montana

THYNELL, S
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TIBBETTS, TE
0359 0 The cleaning characteristics of Vicary Creek mine fines
0780 35 Quality and occurence of coal in southern Saskatchewan, Canada, Volume I, Introduction to data acquisition and to associated computer processable files
1056 1 Study of the Gieseler Plasticity Test with special reference to A seam Michel coal
1078 135 Coal associated materials as potential non-Bauxite sources of Alumina
1079 107 Analysis directory of Canadian commercial coals. Supplement No. 3

TICE, CL
0678 106 Cold flow mixing rates with recirculation for pulverized-coal-reactors

TICE, JD
0177 90 Coal processing technology, Volume 3

TICHENOR, D
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

TICHOTSKY, AS
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

TIDONA, RJ
0680 212 Laser-initiated combustion of single coal particles in quiescent oxygen environments

TIEARNEY, TC
0180 138 Metallic corrosion in simulated low-Btu coal-gasification atmospheres

TIEE, JJ
0581 58 Spectroscopy and reaction kinetics of HS radicals

TIEN, J
0481 48 Metal stoppings reduce air leakage

TIEN, CJ
0579 49 Impact of the Federal Mine Health & Safety Act on underground mine-ventilation

TIEN, CK
1077 16 Study of coal reactivities, Annual Report, June 1976 - May 1977

TIEN, JC

0478 69 Pros and cons of underground ventilation systems

TIEN, JK
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland

TIERNAN, TO
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

TIERNON, CH
0380 45 Concentrating tables for fine-coal cleaning

TIGHE, NJ
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

TIKHONOVA, NV
0478 167 Rock pressure manifestations in faulted seams

TILLER, FM
0281 291 Filtering coal liquids: Clogging phenomena in the filtration of liquefied coal

TILLERY, MI
0577 85 Coal aerosol research and development, 1972 -1975, final report
0580 126 An evaluation of fast response aerosol mass monitors

TILLMAN, DA
0179 312 Synthetic fuels from coal: an overview and assessment

TILLMETZ, KD
0178 72 Feedstock for chemical industry by selective Fischer-Tropsch Synthesis

TIMMERHAUS, KD
1176 3 A total present worth economic comparison of coal and nuclear fuel energy alternatives

TIMMERMAN, M
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TIMMERMANS, AR
0678 242 Combined-cycles for electric-power and heat generation

TIMMINS, C
0179 155 The future role of gasification processes
0182 53 Agglomeration of coal
0278 167 Production of gas from coal

TIMOFEEVA, SD
1079 242 Transformations of some binders during high-temperature treatment

TING, BT
0279 173 Study of mobilization and speciation of trace elements in coal pyrolysis - dissertation
1079 91 Effects of organic and inorganic binding on the volatilization of trace-elements during coal pyrolysis

TING, FT
1077 71 A new technique for measuring reflectance of vitrinite and dispersed vitrinite in sediments
1080 114 Anisotropic electrical properties of coal

TIPLER, W

0676 2 Prospects for the operation of diesel-engines on coal or its derivatives

TIPNIS, P
0278 204 Screening of zeolite catalysts for methanol conversion to light hydrocarbons, final report, January 1 - September 30, 1978

TIPTON, AB
0377 57 Improved hydrodesulfurization of coal-char by acid leach
0380 176 Sulfur removal from coal char using convert-remove technology

TIPTON, LM
0179 106 Implications of RCRA, SMCRA, and TSCA on underground coal gasification

TIRGAN, MR
0280 285 Gas chromatographic study of methylstyrenes in the light-oil fraction of coal distillate using selective hydrogenation

TIRUNARAYANAN, MA
0682 42 Thermal decomposition and ignition of coal

TISCHER, RE
0281 128 1980 status review - hydroliquefaction of coal with supported catalysts
0281 206 Catalyst deactivation during coal liquefaction: the effect of catalyst diameter
0281 327 Preparation of bimodal aluminas and molybdena/alumina extrudates
0282 113 Catalyst deactivation during coal liquefaction. The effect of catalyst diameter

TISDALL, DE
0673 15 Sulfur retention in fluidized-beds of lime under reducing conditions
0673 25 The design, construction, and operation of the Abingdon fluidized-bed gasifier

TISHKOVA, OP
0681 104 Products of the thermal degradation of brown coal modified with calcium hydroxide

TISON, RR
0279 199 Coal liquefaction processes

TISOT, PR
0164 4 Physical structure of Green-River oil-shale

TITOV, IP
0779 42 The effect of the size grade and macroingredient composition of coal on its thermochemical conversions

TITOV, VM
0677 225 Papers from U.S.S.R. publications. Part 1. 1977

TITOVA, TA
0178 364 Coal hydrogenation -- present state and prospects
0178 372 Influence of the treatment of a gas coal with mineral acids on its capacity for undergoing hydrogenation
0178 373 Investigation of the combined pyrolysis of coal and petroleum
0278 196 Molybdenum and iron coal hydrogenation catalysts
0280 323 Hydrogenation of coal under a low pressure of hydrogen
0281 266 Hydrogenation of coal of the Talbulag deposit in the Mongolian People's Republic
0778 38 Evaluation of the quality of coals as a raw material for hydrogenation

TITUS, PE
0880 15 Removal of sulfur compounds from coal during pipeline transport

TIWARI, DN
0677 76 Sulfur in coal and its transformation during pyrolysis

TIXIER, JS
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

TKACHENKO, PV
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin
0281 231 Influence of the oxidation of brown coal before extraction on the quality of the brown-coal wax and coal-alkali reagents

TKACHENKO, UF
0778 32 Stress state of an untouched bed layer and surrounding rocks

TKATCHENKO, I
0280 205 The fate of iron and ruthenium complexes deposited in Faujasite-type zeolites

TOBA, Y
0677 22 Experimental investigation of NOx formation in the fluidized-bed coal combustion

TOBBEN, P
0181 178 Interchange of pollutants between groundwater and mineral strata as applied to waste chemical dumps and in-situ coal gasification sites

TOBBEN, PJ
0182 26 A simple solvent extraction scheme employing dissolved organic carbon analysis for the characterization of organic by-products from simulated in situ coal gasification

TOBLER, RH
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

TODA, Y
0179 18 Relation between formation rates of methane and hydrogen on pyrolysis of coal under pressure
0179 140 Change in thermoplastic properties of coal under pressure of various gases
0179 184 Factors affecting methane evolution on pyrolysis of coal under pressure
0181 24 General description of fundamental studies on coal gasification under pressure
0181 34 Effects of hydrogen pressure on hydrogasification of Taiheiyo (Japan) coal

TODD, DM
0179 264 Coal derived fuel-STAG
0180 289 Coal-derived fuel flexibility for today's combined cycles

TODD, FA
0178 206 Sulfur recovery in a coal gasification plant, Final Report
0578 102 Sulfuric acid versus elemental sulfur as by-products

TODD, LJ
1080 193 The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979

TODD, RG
0677 56 Technology and use of lignite

TODO, Y
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

TOGAWA, T

0678 137 An experimental study of the combustion of coke-breeze in a fluidized-bed combustor

TOGUZBAEVA, KK
0481 63 Additional results on the nature of the changes of hard-coal dust in the organism

TOJO, K
0679 24 Modeling of shallow fluidized-bed combustion of coal particles
0681 25 Modeling of dynamic and steady-state shallow fluidized bed coal combustors. Effects of feeder distribution

TOKACH, P
1079 182 The nonfuel utilization of coals

TOKUDA, K
0681 168 Development of pulverized coal fired low NOx PM burner

TOLCHINSKY, LS
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

TOLMAY, RT
1080 145 A rapid method for the determination of uranium in ores and carbonaceous materials by x-ray fluorescence spectrometry

TOMAN, JJ
0277 132 Fluidization theories and applications

TOMASHEVASKAYA, MK
1078 110 Investigation of the nonvolatile liquid substances isolated from the plastic mass of coal

TOMAZIUS, M
1079 193 Influence of some factors on the yield of coke from pitch-coke compositions

TOMB, TF
0475 9 First Symposium on Underground Mining, Volume I
0478 67 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers
0580 89 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers (Supersedes IR 1073)
0581 49 Laboratory evaluation of RACAL airstream helmet

TOMITA, A
0179 19 Gasification of coals treated with non-aqueous solvents. 6. Catalytic steam gasification at atmospheric pressures
0179 20 Gasification of coals treated with non-aqueous solvents. 5. Properties of coals treated with liquid ammonia
0179 303 Scanning electron microscope study on the catalytic gasification of coal
0180 266 High pressure steam gasification of coal

TOMITA, M
0680 85 Experimental study of low-NO//x fluidized-bed combustor development - 2. Performance of two-stage fluidized-bed combustion
0680 107 An experimental study for low-NO//x fluidized-bed coal combustor development. 1. Combustion under substoichiometric conditions
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

TOMKINS, BA
0280 148 Detection of primary and secondary amines in energy-related materials using an element-selective glow-discharge detector
0280 150 Determination of Benzo(a)pyrene in petroleum substitutes

0282 63 Determination of polycyclic aromatic amines in natural and synthetic crudes
0678 68 Theoretical consideration of the adsorption of polynuclear aromatic hydrocarbon vapor onto fly-ash in a coal-fired power-plant
1082 76 A rapid screening procedure for a 2-aminonaphthalene in natural, synthetic refined crudes

TOMLINSON, G
0280 344 The Impact of developing technology on indirect liquefaction
0282 46 An assessment of disposable catalysts based on iron sulfides

TOMLINSON, GC
0281 149 The impact of developing technology on indirect liquefaction

TOMLINSON, LH
0677 99 Part 1: Formation and removal of residual fuel ash deposits in gas-turbines formed at firing temperatures below 982-degrees-C (1800-degrees-F)
0677 100 Part 11: Formation and removal of residual fuel ash deposits in gas-turbines formed at firing temperatures above 982-degrees-C (1800-degrees-F)

TOMLINSON, RC
0377 21 Use of computers to study the planning and control of coal preparation systems

TOMLINSON, SV
0177 96 Evaluation of intermediate-Btu-coal gasification systems for retrofitting power plants

TOMLINSON, TR
0180 206 Treatment of ammonia synthesis purge gas

TOMPKINS, F
0378 77 Research on cross-flow filtration for solids removal from coal syncrudes - final report

TOMPKINS, MA
0682 8 Analysis of fly ash produced from combustion of refuse-derived fuel and coal mixtures

TOMPOS, E
0381 95 An application of coal petrography to coking coal preparation

TOMSKIKH, SS
0179 278 Study of the group and individual composition of tar from gasification of far east tar liptobiolith

TONE, S
0678 249 Coal conversion reaction engineering
1079 20 Reactivity of iron-sulfide in sulfur-dioxide atmosphere

TONG, H
0281 300 Catalytic combustion of coal-derived liquid fuels

TONG, JY
0181 169 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low sulfur char by flash carbonization of coal.
0182 51 Process for the concurrent production of hydrogen, carbon-monoxide and low-volatile, low-sulfur char by flash carbonization of coal

TONG, KO
0180 57 Hot gas cleanup by a confined-vortex scrubber

TONN, DP
0681 188 Coal Technology '81, Vol. 3

TONNESEN, K
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TONNESSEN, K
0580 118 Environmental report: Proposed underground coal gasification experiment in the Tono Basin, Washington State

TOOKEY, DJ
0280 156 Static mixer and method of mixing fluids

TOON, OB
0580 0 Environmental and climatic impact of coal utilization

TOPPER, JM
0178 383 The use of non-fossil derived hydrogen in coal conversion process - final report
0279 53 The development of coal liquefaction processes in the United-Kingdom

TOPUZ, E
0779 45 Designing coal pillars from drill core data

TORMA, AE
0380 169 Process for the recovery of alumina from fly ash and production of cement constituents
0380 182 Desulfurization of coal by thiobacillus ferrooxidans

TORPY, MF
0581 84 Synthetic fuel effluents

TORRE, DC
0482 81 Developments in continuous haulage for coal mining

TORREST, RS
0680 36 Laboratory studies of the rapid pyrolysis and desulfurization of a Texas lignite

TORREY, S
0578 94 Trace contaminants from coal

TORRIANI, IL
1082 79 Characterization of Brazilian high-ash coals by small-angle x-ray diffraction methods

TORYANIK, EI
0380 117 Modern trends in thermal processing of coal shapes (briquettes)
1079 251 Laboratory procedure for testing the suitability of coals for formed coke production

TOSHIHIDE, I
1080 140 Simple and improved methods of viscosity measurements for pitch

TOTH, GW
0476 23 Second Symposium on Underground Mining
0477 193 Coal mining cost models-underground mines. Final report

TOUR, VV
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

TOURIN, RH
0677 43 A unitized 500-megawatt fluidized-bed boiler design
0677 196 Fluidized-bed combustion research in New-York: a step toward breaking the oil habit

TOUT, RE
1080 65 A critical evaluation of short-lived and long-lived neutron activation products for trace-element determinations

TOVMA, VA
0677 219 Superconducting magnet system for an MHD generator

TOWNSEND, F
0180 78 Coal Technology '80
0382 12 Factors influencing the need for improved reagent systems for the flotation of coal

TOWNSEND, FC
1081 18 Centrifuge modeling of coal waste embankments

TOWNSEND, JM
0477 56 A relationship between the ultimate compressive strength of cubes and cylinders for coal specimens

TOY, TJ
0581 66 Precipitation variability and surface-mine reclamation in the Green, Powder and San Juan River Basins

TOYNBEE, PA
0878 36 Coal bunker discharge

TRACHTE, KL
0181 223 Technology and use of lignite, Vol. 1 and 2
0279 187 Calcium carbonate deposit formation during the liquefaction of low rank coals
0280 337 Bottoms recycle studies in the EDS process development
0281 151 Coal feed flexibility in the Exxon Donor Solvent coal liquefaction process

TRAEGER, RK
0279 94 Engineering kinetics of short residence time coal liquefaction processes
0279 107 Mineral matter effects in coal-liquefaction
0280 9 Engineering kinetics of short-residence-time coal liquefaction processes

TRAGELLES, PG
0478 61 Strategy for mining research and development in the United-Kingdom

TRAINIS, VV
0877 13 Parameters and regimes for the hydraulic transportation of coal by pipelines

TRAN, DQ
0178 165 Kinetic modeling of pyrolysis and hydrogasification of carbonaceous materials
1079 4 Kinetic models for pyrolysis and hydrogasification of Hanna coal

TRAN, PT
0880 29 Calculate natural frequency of internal lined pipe

TRANBY, OG
0174 12 Coal processing technology

TRAPP, DW
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

TRASS, O
0681 22 Preparation of coal-oil mixture fuels
0681 191 Grinding of coal slurries with the Szego mill

TRAVIS, BJ
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TRAXEL, K
1081 99 Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe

TRAXLER, ER
0478 50 Get the most from your conveyors

TRAYSER, DA
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi-solids fluidized-bed combustion process

TREAFTIS, HN
0478 67 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers
0580 89 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers (Supersedes IR 1073)
0581 49 Laboratory evaluation of RACAL airstream helmet

TREAT, NL
1177 47 Net energy analysis of five energy systems

TREDDENICK, JM
0478 76 The impact of the mining industries on the Canadian economy

TREDE, KN
0579 122 Environmental assessment: Source test and evaluation report - Wellman-Galusha (Glen Gery) low-Btu gasification

TREGELLES, PG
0477 95 Third Symposium on Underground Mining
0478 126 Strategy for mining research and development in the United-Kingdom
0480 28 Progress with mining research and development in the UK
0480 57 Automation in UK mines: achievements, goals and problems
0482 53 Control technology in coal mining
1179 29 Coal research 2000: The 1978 Robens Coal Science Lecture

TRENT, VA
1082 80 Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia

TREVINO-LOZANO, RA
0280 275 Characterization of heat transfer in preheaters of bench-scale, solvent-refined coal apparatus

TREVITS, MA
0478 279 Methane drainage: Experience with hydraulic stimulation through slotted casing
0478 312 Effective placement of coalbed gas drainage wells, report of investigations
0479 4 Methane drainage ahead of mining using foam stimulation. Mary-Lee coalbed, Alabama

TREWORGY, CG
0478 124 Reserves and resources of surface-minable coal in Illinois
0482 18 Only minable coal is salable coal

TREXEL, CA
0178 188 Preliminary market evaluation for gas produced by underground gasification of western coal, Final report

TRIBE, J
0480 19 Luscar's coal mining operations

TOUT, RE
1080 65 A critical evaluation of short-lived and long-lived neutron activation products for trace-element determinations

TOVMA, VA
0677 219 Superconducting magnet system for an MHD generator

TOWNSEND, F
0180 78 Coal Technology '80
0382 12 Factors influencing the need for improved reagent systems for the flotation of coal

TOWNSEND, FC
1081 18 Centrifuge modeling of coal waste embankments

TOWNSEND, JM
0477 56 A relationship between the ultimate compressive strength of cubes and cylinders for coal specimens

TOY, TJ
0581 66 Precipitation variability and surface-mine reclamation in the Green, Powder and San Juan River Basins

TOYNBEE, PA
0878 36 Coal bunker discharge

TRACHTE, KL
0181 223 Technology and use of lignite, Vol. 1 and 2
0279 187 Calcium carbonate deposit formation during the liquefaction of low rank coals
0280 337 Bottoms recycle studies in the EDS process development
0281 151 Coal feed flexibility in the Exxon Donor Solvent coal liquefaction process

TRAEGER, RK
0279 94 Engineering kinetics of short residence time coal liquefaction processes
0279 107 Mineral matter effects in coal-liquefaction
0280 9 Engineering kinetics of short-residence-time coal liquefaction processes

TRAGELLES, PG
0478 61 Strategy for mining research and development in the United-Kingdom

TRAINIS, VV
0877 13 Parameters and regimes for the hydraulic transportation of coal by pipelines

TRAN, DQ
0178 165 Kinetic modeling of pyrolysis and hydrogasification of carbonaceous materials
1079 4 Kinetic models for pyrolysis and hydrogasification of Hanna coal

TRAN, PT
0880 29 Calculate natural frequency of internal lined pipe

TRANBY, OG
0174 12 Coal processing technology

TRAPP, DW
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

TRASS, O
0681 22 Preparation of coal-oil mixture fuels
0681 191 Grinding of coal slurries with the Szego mill

TRAVIS, BJ
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TRAXEL, K
1081 99 Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe

TRAXLER, ER
0478 50 Get the most from your conveyors

TRAYSER, DA
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi-solids fluidized-bed combustion process

TREAFTIS, HN
0478 67 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers
0580 89 Standard calibration and maintenance procedures for wet test meters and coal mine respirable dust samplers (Supersedes IR 1073)
0581 49 Laboratory evaluation of RACAL airstream helmet

TREAT, NL
1177 47 Net energy analysis of five energy systems

TREDDENICK, JM
0478 76 The impact of the mining industries on the Canadian economy

TREDE, KN
0579 122 Environmental assessment: Source test and evaluation report - Wellman-Galusha (Glen Gery) low-Btu gasification

TREGELLES, PG
0477 95 Third Symposium on Underground Mining
0478 126 Strategy for mining research and development in the United-Kingdom
0480 28 Progress with mining research and development in the UK
0480 57 Automation in UK mines: achievements, goals and problems
0482 53 Control technology in,coal mining
1179 29 Coal research 2000: The 1978 Robens Coal Science Lecture

TRENT, VA
1082 80 Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia

TREVINO-LOZANO, RA
0280 275 Characterization of heat transfer in preheaters of bench-scale, solvent-refined coal apparatus

TREVITS, MA
0478 279 Methane drainage: Experience with hydraulic stimulation through slotted casing
0478 312 Effective placement of coalbed gas drainage wells, report of investigations
0479 4 Methane drainage ahead of mining using foam stimulation. Mary-Lee coalbed, Alabama

TREWORGY, CG
0478 124 Reserves and resources of surface-minable coal in Illinois
0482 18 Only minable coal is salable coal

TREXEL, CA
0178 188 Preliminary market evaluation for gas produced by underground gasification of western coal, Final report

TRIBE, J
0480 19 Luscar's coal mining operations

TRIEGEL, EK
0580 136 Attenuation by soils of selected potential contaminants from coal conversion facilities: a literature review

TRIFFETT, AC
0280 16 Continuous hydrogenation of Yallourn brown-coal tar

TRIMM, DL
0180 134 Industrial catalysis
1079 98 Study of nickel-molybdate coal-hydrogenation catalysts using model feedstocks

TRIPATHI, G
0178 90 Pollutions arising from coal gasification and carbonization and their control
0178 361 Technique of heat supply in coal gasification and carbonization
1078 136 Chemicals from coal

TRIPLEHORN, DM
0780 27 Stratigraphic significance of radiometric ages for Eocene coals in western Washington

TRIVETT, GS
0381 110 Deashing of low-quality Nova Scotia coals by spherical agglomeration
0681 209 Fluidized bed combustion: a viable alternative for residential heating

TROFIMOV, SF
0778 31 Character and magnitude of the variation in thickness of coal beds

TROITSKII, AA
0680 231 An investigation of the electrical precipitation of Ekibastuz coal ash as a function of the exhaust gas temperature

TROLINGER, JD
0677 50 On line monitoring of particulates
0681 48 The thermal decomposition of pulverized coal particles
0681 148 Observation of the behavior of coal particles during thermal decomposition

TROMMEL, J
1082 15 Proton dynamic polarization and proton-carbon cross-polarization in coal

TROY, HM
0882 40 Environmental impact statement - the ETSI project

TROYER, M
0477 150 Study and analysis of an automatic control system for a boring type continuous miner, Final technical report

TRUDELL, M
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III

TRUDELL, DE
0281 200 The reversability of coal liquefaction

TRUESDALE, RS
0180 86 Fundamental aspects of catalysed coal char gasification

TRUETT, JB
0176 17 Gasification/Combined-Cycle System for electric-power generation
0374 1 An interpretative compilation of EPA studies related to coal quality and cleanability

TRUJILLO, D
1079 258 Novel approaches to a study of the fundamental organic chemistry of coal, Final report, September 1, 1977 - September 1, 1979

TRUJILLO, PE
0179 117 Kinetics of sub-bituminous coal drying

TRUMBULL, HE
0177 124 A novel dry coal-feeding concept for high pressure gasifiers

TRUONG, KT
0880 29 Calculate natural frequency of internal lined pipe

TRUTT, FC
0481 52 Dynamic simulation of coal mine electrical power systems

TRYKOSKI, MA
0881 47 Coal Technology '81, Vol. 1

TRZASKOMA, WP
0680 187 Near term commercialization of MHD power generation using coal/oil fuel

TSAI, MC
1079 124 Catalysis of hydrogen transfer in a tetralin-coal system

TSANG, TH
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0180 152 Modeling of heat and mass transfer during coal block gasification - dissertation
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TSAO, U
0180 94 Coal gasification effluent treatment

TSAO, KC
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

TSAREV, VY
0181 143 Features of the carbonization of compositions of uncalcined petroleum coke with hard-coal pitch
0381 70 The influence of the time of grinding of coke-pitch mixtures on their behavior during thermal treatment and on the strength of the graphite obtained

TSAROS, CL
0170 2 The Effect of accounting factors on the economics of synthetic pipeline-gas
0171 1 Electrothermal Hygas Process, Escalated Costs

TSCHANTZ, BA
0579 21 Environmental aspects of coal production in the Appalachian region progress report for June 1978 - May 1979

TSCHENG, SH
0173 7 Comparison of alternate coal gasification processes for pipeline-gas production

TSCHUPP, EW
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

TSELISHCHEV, PA
0181 133 The plasma gasification of coals

TSENG, S
1079 20 Reactivity of iron-sulfide in sulfur-dioxide atmosphere

TSFASMAN, AB
1079 148 Question of the chemical structure of hard coals

TSIKAREV, DA
1078 168 The use of petrographic characteristics for predicting the physico-chemical and chemical-technological properties of coals
1080 107 A study of some coals of the Pechora Basin with respect to the parameters of the draft petrological-geochemical classification
1080 168 Analysis of the structure of the charge of byproduct coke works according to the parameters of a petrological-geochemical classification of coals

TSIPEROVICH, MV
0379 69 Use of oxidized hydrocarbons for flotation of coals

TSOA, JM
0180 91 Alkali metal recovery from carbonaceous material conversion process

TSONOPOULOS, C
0281 16 Volatility of coal liquids at high temperatures and pressures
0282 19 Density, viscosity, and surface tension of coal liquids at high temperatures and pressures

TSOU, P
0177 122 Evaluation of ERDA-sponsored coal-feed system development

TSOULFANIDIS, N
1077 19 Comparison of nuclear and coal power plants using net energy analysis

TSU, R
1078 28 Raman scattering and luminescence in coal and graphite.

TSU, TC
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

TSUBOUCHI, H
1177 29 The 29th Canadian conference on coal

TSUCHIYA, HM
0381 44 Kinetics of the removal of iron pyrite from coal by microbial catalysis

TSUKAHARA, S
0580 156 Wastewater treatment system for coal-fired power plants

TSUKII, J
0681 188 Coal Technology '81, Vol. 3

TSUPROV, SA
0280 132 Method for heat processing of pulverized brown-coal
0280 139 Heat processing of pulverized carboniferous material

TSUYUGUCHI, M

1079 263 Utilization of petroleum pitch in metallurgical coke manufacturing

TUCCI, ER
0179 189 Monolith catalyst favored for methanation
0180 148 Ruthenium catalysts improve methanation
0182 13 Use catalytic combustion for LHV gases

TUCKER, R
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

TUCKER, PV
0379 37 Computer predictions of coal cleaning performance

TUCKER, RC
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

TUDOR, JJ
0679 10 Evolution of a conceptual design for a coal-fired fluidized-bed combustion furnace for a MIUS closed-cycle gas-turbine

TUENGE, RT
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

TUFTE, PH
0677 86 Ash fouling studies of low rank western United-States coals

TUGRUL, T
0178 93 Supercritical-gas extraction of two lignites
1079 88 Paraffinic hydrocarbons from supercritical-gas extracts of coal as organic geochemical markers

TULENKO, DM
1176 3 A total present worth economic comparison of coal and nuclear fuel energy alternatives

TULI, KS
0881 47 Coal Technology '81, Vol. 1

TUNG, SE
0676 8 The fluidized bed combustor modeling
0677 198 System model and data base system for fluidized-bed combustion
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 150 Application of an interim fluidized bed combustor system model and an interim fluidized bed combustor data base management system to plant design
0681 179 Modeling of fluidized-bed combustion of coal: Final Reports, Volume I. Model evolution and development

TUPOVA, GA
0381 70 The influence of the time of grinding of coke-pitch mixtures on their behavior during thermal treatment and on the strength of the graphite obtained

TURBAK, SC
0579 29 Impact of western coal mining. II. Microbiological studies
0579 30 Impact of Western coal mining. I. Chemical Investigations of a surface coal mine sedimentation pond
0579 31 Environmental Effects of Western Coal Surface Mining: Part IV - Chemical and microbiological investigations of a surface coal mine settling pond

TURBINSKII, MG
1080 165 A study of the structure of the solid residues formed in the oxidative pyrolysis of primary coal tars

TURCHENKOVA, LM
1080 117 The change in the properties of concentrates from Karaganda coals of different types according to separation densities

TURCO, RP
0580 0 Environmental and climatic impact of coal utilization

TUREK, DG
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

TURENKO, FP
0679 136 Statistical methods of studying the structure of coal matter. Determining the chemical composition of domestic electrode pitches by spectral-statistical methods
1079 150 Statistical methods of investigating the coal substance, graphical-statistical methods of determining the structural-group composition of coal products

TURK, LJ
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

TURKDOGAN, ET
0178 162 Desulfurization of hot-reducing-gases with calcined dolomite

TURNBULL, A
0481 157 A progress report on CNR's Line Creek project

TURNBULL, DM
0179 161 Natural-Gas still leading Syn gas source

TURNER, C
0680 42 The effects of calcium chloride on limestone sulfation in fluidized-bed coal combustion

TURNER, D
0580 58 Laboratory support

TURNER, E
0477 44 Compilation of Judicial decisions which have an impact on coal mine inspections

TURNER, J
0681 94 Advanced power plant siting in Ohio

TURNER, AB
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 119 The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels

TURNER, CB
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0678 150 The effect of sodium-chloride on the reaction of SO//2/O//2 mixtures with limestones and dolomites
0679 39 The effect of CaCl//2 additive on the reaction of SO//2O//2 mixtures with carbonate rocks

TURNER, DL
0780 27 Stratigraphic significance of radiometric ages for Eocene coals in western Washington

TURNER, FB
0580 61 Trace-elements in vegetation downwind of a coal-fired power-plant

TURNER, JH
0379 22 Heat drying of coal at mid-continent
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

TURNER, KE
0580 169 Environmental significance and analysis of trace elements in coal and coal products
0581 23 Direct determination of trace elements in coal: Wavelength-dispersive x-ray spectrometry with matrix correction using compton scattered radiation

TURNER, ME
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

TURNER, MJ
0380 63 Coal de-ashing process

TURNER, PW
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

TURNER, RL
0377 68 Removal of impurities from coal

TURNER, RR
0581 51 Oxidation state of arsenic in coal ash leachate

TUSA, W
0581 61 Analysis of industrial boiler solid waste impacts

TUTTLE, J
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

TWAMLEY, CS
1079 136 Studies of spontaneous combustion in beds of activated carbon

TWARDOWSKA, H
0179 242 Mossbauer studies of iron in Lurgi gasification ashes and power plant fly and bottom ash
0279 47 Calibration standard for X-ray-diffraction analyses of coal liquefaction residues: Moessbauer spectra of synthetic pyrrhotite
1080 31 Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal-conversion processes
1080 133 Moessbauer studies of illites and heat-treated illite as related to coal-conversion processes

TWEEDY, DH
0478 57 Pneumatic conveying development

TWU, CC
0280 199 A simultaneous IR/kinetic study of supported platinium methanation catalysts

TYE, RP
1081 153 Thermophysical properties of Pittsburgh seam coal

TYL'CHEVSKAYA, LI
0379 86 Mineralogical composition of the inorganic fraction of peats of the deposit of Tyumen province

TYLER, AL
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

TYLER, RJ
0180 133 Flash pyrolysis of coals: comparison of results from 1 g/h and 20 kg/h reactors
0280 227 H n.m.r. study of tars from flash pyrolysis of three Australian coals
0280 242 Influence of pyrolysis temperature on the aromatic fraction of flash pyrolysis tars
0280 248 The nature of tars produced by the flash pyrolysis of coals
0280 253 Conversion of coal to liquid products by flash pyrolysis
0674 9 The reactivity of a porous brown coal char to oxygen between 630 and 1812-deg-K
0680 14 Flash in pyrolysis of coals. Devolatilization of bituminous coals in a small fluidized-bed reactor
0680 35 Flash pyrolysis of coals: Influence of cations on the devolatilization behavior of brown-coals
1080 46 Proton NMR study of tars from flash pyrolysis of three Australian coals

TYLKO, JK
0380 157 Method and apparatus for the treatment of matter with low temperature plasma and product obtained by this method
1081 145 In-flight plasma reduction of domestic chromite

TYNER, CE
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

TYRYMOV, AA
0477 63 The stressed-state in an undisturbed rock-mass with schistosity and curvature of the beds
0478 171 State of stress in undisturbed stratified rocks with steeply dipping strata of various thicknesses

TYSON, TJ
0677 88 The fate of fuel nitrogen - implications for combustor design and operation

TYURNIKOVA, VI
0379 95 Technological scheme for the waste-free treatment of thermal power station ash

TYUTYUNNIKOV, YB
0379 85 Methods for obtaining shaped coke and results of trials of such coke in blast furnaces

UBHAYAKAR, SK
0181 102 Dynamic computer simulations of entrained-flow and fluidized-bed coal gasifiers
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 150 Development program for MHD power generation. Coal devolatilization. Final report, Vol. VI, July 1975 - Sept. 1976
0678 233 Mechanistic modeling of pulverized-coal combustion

UCHIDA, K
0282 199 Apparatus for supplying raw liquid and relieving pressure of high-pressure produce liquid

UCHINO, H
0281 85 Combination of Carbon-13 and Proton-NMR spectroscopy for structural analysis of neutral, acidic and basic heteroatom compounds in products from coal hydrogenation
1080 15 Derivation of structural parameters for coal-derived oil by carbon-13 nuclear-magnetic-resonance spectrometery

UCHITEL, AD
0379 63 Charge carbonization in a vibrating bed

UDANI, LH
0278 35 New twist for making products from coal

UDD, JE
1080 190 Compressive strength of a bituminous coking coal

UDEN, PC
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

UDVARDY, S
0478 317 Microstructural effects in abrasive wear, year-end summary report, March 15, 1977 - March 15, 1978

UEDA, S
0279 151 Hydrogenation reactivity of petrographic composition of coal
0279 162 Studies on coal hydrogenation reaction using high pressure differential thermal analysis
0280 4 Some aspects of the behaviour of tin chloride during coal hydrogenation in the absence of a solvent
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
0282 185 Elucidation of structural and hydroliquefaction characteristics of Yallourn brown coal by carbon-13 CP/MAS nmr spectrometry
1078 188 Application of a single-cell high-pressure DTA technique to coal hydrogenation research

UEDA, Y
0679 108 Pulverised coal combustion successfully used in RSP system

UGIANSKY, GM
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

UGO, R
0281 186 Surface-supported metal cluster carbonyls. Chemisorption, decomposition and reactivity of Os//3(CO)//12, H//2Os(CO)//10 and Os//6(CO)//18 supported on silica and alumina and the investigation of the Fischer-Tropsch catalysis with these systems

UHI, VW
0177 300 Heat transfer to viscous materials in a continuous-flow, scraped-wall, commmercial-size heat exchanger

UHLIG, HF
0180 70 The impact of heavy crude oils on refinery operation

UHRIG, RE
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

UHRIN, DC
0480 156 Survey of coal industry programs for utilization of methane from coal seams. Final report

UHRMANN, CJ
0677 27 The stage combustion coal-fired glass-furnace

UJHIDY, A
0676 32 Fluidization technology, volume 2

UL'SHIN, VI
0380 150 Optimizing coal tailings concentration in hydrocyclones

ULANOV, NN
0779 22 Chemical and petrographic parameters of low-rank coals of the Donets, Kuznets and Pechora Basins and the coalfields of the Trans-Baikal.
1079 181 The dependence of the cakeability and cokability indices of low-rank coals of the Donetsk, and Pechora Basins

and the deposits of Transbaikalia on their chemical and petrographic characteristics
1080 103 Possible parameters of the cokeability of low-rank coals

ULANOVSKII, ML
0179 310 Thermal degradation of natural polymers in the presence of zinc chloride
0180 175 A complex mass-spectrometric and derivatographic investigation of the initial stages of the transportations of coals
0779 47 Some differences between coals of the same rank from different coalfields
1079 175 Certain problems of methodology and experimental techniques for analysis of coal-tar extracts
1079 199 Data content of spectrographic coal testing methods

ULERICH, NH
0179 326 Chemically active fluid bed for SOx control, Volume 1, process evaluation studies
0677 177 Optimizing sorbent utilization in once-through atmospheric pressure fluidized-bed combustion
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes
0680 43 A thermogravimetric study of the sulfation of limestone and dolomite - prediction of pressurized and atmospheric fluidized-bed desulfurization
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

ULLRICH, CR
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II

ULLRICH, SO
0181 199 Environmental implications of small fixed-bed gasifiers for industry

ULMER, JH
0778 33 Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North-Dakota

ULRICH, GD
0677 96 Mechanism of sub-micron fly-ash formation in a cyclone, coal-fired boiler
0678 87 An investigation of the mechanism of fly-ash formation in coal-fired utility boilers, Annual and quarterly report, Feb. 1977 - Jan. 1978, Nov. 1977 - Jan. 1978

ULRICH, WC
0177 88 Evaluation of in-situ coal gasification processes on a regional basis
0178 106 The economics of electricity and SNG from in-situ coal gasification
0178 272 Coal processing technology, Volume IV
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 52 Evaluation of an in-situ coal gasification facility for producing M-gasoline via methanol
0179 69 Process designs and economic evaluations for the linked-vertical-well in-situ coal gasification process
0179 93 Economics of producing gasoline from underground coal gasification synthesis-gas
0277 31 Evaluation of the Synthoil process, Volume III, Unit block flow diagrams for a 100,000 barrel/stream day facility
0277 57 Evaluation of the Synthoil process, Volume II, Status of Development
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives
0279 125 Economics of gasoline from underground coal gasification
0281 265 Liquefaction technology assessment - Phase 1: Indirect liquefaction of coal to methanol and gasoline using available technology

UMAROV, TZ
0381 75 Intensification of the process of oxidation of brown coals under the action of hydrodynamic forces
1078 155 Non-fuel processing of coals
1081 188 An investigation of the properties of coal-alkali reagents from a number of coals

UMASHANKAR, K
0478 308 Analytical bases for eletromagnetic sensing of coal properties - final report

UMEMATSU, J
0182 16 Effect of SO//4**2- on catalytic activity of Fe//2O//3 for hydrocracking of coal

UNGAR, EE
0481 104 The noise exposure of operators of mobile machines in US surface coal mines, 1979
0577 3 Guidelines to quieting noise in preparation plants
0577 8 Reducing screen-noise in coal cleaning plants

UNGARIAN, DE
1078 181 Reaction of coal with nitronium tetrafluoroborate

UNGER, H
0280 309 LC-fining of solvent refined coal - SRC-I and short contact time coal extracts
0280 319 Advanced coal liquefaction processes emphasize low hydrogen consumption
0281 241 LC-fining of solvent-refined coal. SRC-I and short-contact-time coal extracts

UNGER, PE
0680 135 Modeling the devolatilization behavior of a softening bituminous coal

UNITES, DF
0180 78 Coal Technology '80

UNKEL, WC
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 95 Axial field limitations in MHD generators, Topical Report

UNRUG, KF
0480 144 Subsidence and its effect on longwall mine design

UNZ, RF
0476 22 Sixth Symposium on Coal Mine Drainage Research
0481 148 Microbiology of coal mine drainage treatment

UPDIKE, WA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

UPRETI, C
1081 43 Interaction of iron with humic acid extracted from lignite

URBAN, L
1081 13 Kinetic study of the depolymerization of Bruceton coal

URBAS, TA
0677 99 Part 1: Formation and removal of residual fuel ash deposits in gas-turbines formed at firing temperatures below 982-degrees-C (1800-degrees-F)
0677 100 Part 11: Formation and removal of residual fuel ash deposits in gas-turbines formed at firing temperatures above 982-degrees-C (1800-degrees-F)

URE, RW
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

URI, ND
1178 13 Short term coal demand modelling

URICH, JM
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

UROV, KE
0680 132 The comparative characterization of the organic substance of the combustible shale and brown coal of the Novodmitrovskoe deposit of the Ukrainian SSR
1079 236 The composition and properties of the kerogen of the Pripyat combustible shales of Belorussia from the results of thermal degradation

URQUHART, E
0478 74 The Canadian nonferrous metals industry: An industrial organization study

URQUHART, DB
0277 6 Supercritical Extraction and Concurrent Catalytic Hydrogenation of coal digests

URSO, PJ
0480 18 Fording river mine : an overview

USACHEV, VF
0380 125 Separation of brown-coal bitumens into wax and resin components by by zone-melting method

USHIBA, KK
0280 241 Incentive for sulfur-tolerant methanol catalyst

USLAN, SS
0476 29 Second Institute on Coal Mine Health and Safety

USNICK, GB
0277 42 Solvent-Refined-Coal (SRC) process operation of Solvent Refined Coal Pilot Plant at Wilsonville, Alabama, Annual report, January - December 1976
0278 119 Solvent-refined-coal (SRC) process: Operation of solvent-refined-coal pilot-plant at Wilsonville, Alabama, Annual report, January - December 1977

USPENSKII, VA
0781 35 The construction of a scale of the coalification transformation of fossilized organic matter on the basis of its chemical and substance composition

UTHUS, DB
0475 9 First Symposium on Underground Mining, Volume I
0476 23 Second Symposium on Underground Mining

UTKIN, AS
1079 148 Question of the chemical structure of hard coals

UTLEY, R
0482 77 Movable in-pit primary crushers

UTOH, S
0282 183 Unusual effects of catechol upon the hydroliquefaction of coal

UVAROV, VV
0178 370 Some questions of the mathematical modelling of the gasification of coal in a fluidized bed under pressure

UYTTERHOEVEN, JB
0178 130 Carbon monoxide hydrogenation over ruthenium zeolites

UZIYUK, VI
1080 111 The dielectric properties of the hard coals of the Donbass in the SHF region

VACCARO, FR
0480 53 Heat rate improvements in pulverized coal power plants

VACHER, J
1081 102 Properties of CSF, a fast inorganic scintillator in energy and time spectroscopy

VADIVEL, R
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

VADOVIC, CJ
0175 48 Catalytic gasification of coal
0175 50 Catalytic coal gasification
0178 153 Kinetics of potassium catalyzed gasification
0179 272 Gasifier operation and modeling in the Exxon catalytic coal gasification process

VAGARALI, S
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

VAID, RP
0182 43 Pressure drop in partially fluidized liquid-solid systems

VAIDYANATHAN, KR
0178 272 Coal processing technology, Volume IV
0280 147 Enhanced anti-solvent sedimentation of solids from liquids using pressurized carbon dioxide gas
0579 60 Possible utilization of waste streams from a conceptual coal conversion facility
1079 24 The influence of anti-solvent properties on the initial settling rate of mineral-matter in solvent-refined-coal

VAIDYESWARAN, R
0177 73 Methanation of synthesis-gas from coal
0177 212 Producer-gas and its application
0178 123 Synthetic-fuels from coal

VAIL, CW
1177 23 The energy plantation as an alternative source of fuels

VAIL, YK
0578 100 Present state and prospects of the development of processes for the hydrodesulfurization and hydrocracking of residues

VAISHNAVA, PP
0281 163 In-situ Moessbauer spectroscopic study of the behaviour of tin (II) chloride during coal hydrogenation
1081 62 In-situ study of the decomposition of pyrite in an oxygen atmosphere
1081 107 Moessbauer study of decomposition of pyrite in hydrogen

VALDMAN, K
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

VALDYANATHAN, KR
0281 129 Indirect measurement of inclined sedimentation for ash in coal liquids at high temperature and pressure by x-ray photography

VALENTIN, G
0676 31 Fluidization technology, volume 1

VALENTINE, MK
0277 132 Fluidization theories and applications
0476 22 Sixth Symposium on Coal Mine Drainage Research

VALENTINE, RS
0878 44 Development of coatings for protection of coal during transport and storage. Final report for December 1977 - September 1978

VALENZUELA, J
0681 151 A model of the fluid mechanics in fluidized bed combustors

VAN-AUBEL, LJ
0380 30 Naphtha wash eliminates soot problem

VAN-BENTHEM, J
0682 32 Stirling engines for power production with coal and solid waste

VAN-BOSLETON, P
0279 229 Supercritical gas extraction of Canadian coals - Summary Report

VAN-BROCKLINE, LV
0374 0 Coal utilization symposium - Focus on SO//2 emission control

VAN-BUREN, R
0281 0 Process chemistry of direct liquefaction of lignite with hydrogen and carbon-monoxide

VAN-DEN-BROEK, JJ
0382 2 From metallurgical coal tailings to thermal fuel

VAN-DER-BURGT, MJ
0180 207 Centrifugal pump for powder and a process and apparatus for the gasification of coal powder
0182 37 Shell coal gasification process
0182 69 Process and reactor for the preparation of synthesis gas

VAN-DER-HEIJDEN, S
0180 40 Lignite Reactivity - II Final report

VAN-DER-HEIJDEN, SP
0182 108 Characterization of effluents from a fixed-bed gasifier

VAN-DER-KOLK, M
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

VAN-DER-KRAAN, AM
0281 311 On the time-dependent behavior of iron catalysts in Fischer-Tropsch synthesis

VAN-DER-LAARSE, JD
1081 94 Experience with the microanalytical determination of elements in coal

VAN-DER-WALT, PJ
0380 129 The beneficiation of fine coal by dense-medium cyclone

VAN-DRIESEN, RP

0281 351 Upgrading solvent-refined coal by hydrogenation
0282 108 Bottom-of-the-barrel upgrading economics
1080 66 Recovery and upgrading of heavy oil analyzed

VAN-DUIN, PJ
0581 81 Investigation of fly ash particles with respect to the morphology and surface enrichment of matrix and trace elements

VAN-EPPS, G
0579 101 Plant establishment research on disturbed arid sites in the west

VAN-GONTEN, WD
0177 256 Proceedings of the third annual underground coal conversion symposium

VAN-GROUW, SJ
0677 168 Corrosion studies and high temperature filtration

VAN-HEEK, KH
0173 15 Present situation of the generation of gas from coal through steam gasification using the heat from high temperature nuclear reactors
0173 19 Fundamental studies on coal gasification in the utilization of thermal energy from nuclear high-temperature reactors
0177 7 Effect of the kind and pressure of the ambient gas on the formation of Methane during Pyrolysis and Gasification of Coal
0181 217 Characterisation of coal with regard to different gasification processes
0181 231 Status of steam gasification using heat from high temperature nuclear reactors
0281 152 Comparative investigations of coal pyrolysis under inert gas and H//2 at low and high heating rates and pressures up to 10 MPa
0282 94 Results of the IEA pyrolysis project at Bergbau-Forschung

VAN-HOOK, JP
0280 174 Methane-steam reforming

VAN-HOOK, RI
0374 0 Coal utilization symposium - Focus on SO//2 emission control
0676 16 Effects of trace contaminants from coal combustion. Proceedings of a workshop August 2 - 6, 1976, Knoxville, Tennessee

VAN-HORN, AJ
0679 185 Review of new source performance standards for coal-fired utility boilers, phase three report sensitivity studies for the selection of a revised standard

VAN-KREVELEN, DW
1061 1 Coal: typology, chemistry, physics, constitution
1082 69 Development of coal research - a review

VAN-KUIKEN, JC
1177 41 Effects on regional coal markets of the best available control technology policy for sulfur emissions

VAN-LUIK, A
0579 124 Suitability of dredged material for reclamation of surface-mined land

VAN-NESS, RP
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II
0580 27 Operation of C-E flue-gas desulfurization system for high sulfur coal at Louisville Gas & Electric Company, Cane Run 5

VAN-NICE, LJ
0376 3 Second Symposium on Coal Preparation
0377 20 Pilot plant design for chemical desulfurization of coal
0377 48 Coal desulfurization test plant status - July 1977
0379 54 Coal desulfurization
0576 23 Review and status of the TRW/Meyers process

VAN-ORDEN, D
0781 15 Breakage parameters of some materials in smooth roll crushers

VAN-REIJEN, LL
0177 32 Effect of temperature of reduction on the activity and selectivity of a coprecipitated nickel-alumina catalyst for the Fischer-Tropsch and Methanation reactions

VAN-REIJENDAM, JW
1081 84 Bituminous emulsions

VAN-RENSBURG, WC
0181 223 Technology and use of lignite, Vol. 1 and 2
0980 5 The classification of coal resources and reserves

VAN-REUTH, E
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

VAN-VALIN, CC
0580 0 Environmental and climatic impact of coal utilization
0681 173 Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM
0681 175 Environmental effects of pollutants from coal combustion: 2. The Colstrip, Montana, Power Plant

VAN-VALKENBURG, ES
0677 25 On line particulate analysis for advanced combustion systems
0677 164 An on-line particulate analyzer for fluidized-bed combustion systems

VAN-VOAST, WA
0476 21 Fourth Symposium on surface-mining and reclamation

VAN-WECHEM, HM
0181 81 Potassium-catalyzed gasification of carbon with steam: a temperature-programmed desorption and fourier transform infrared study

VANBRACKIE, HF
0178 272 Coal processing technology, Volume IV

VANDEGRIFT, GF
1080 73 Treatment of Green River oil-shale by carbon-dioxide: evidence for association of bitumen and carbonate materials
1081 28 Is kerogen-like material present in coal? 2. Chromic acid oxidation of coal and kerogen

VANDER-KLAY, AP
0279 27 H-coal fluid dynamics, annual technical report for the period August 1977 - August 1978

VANDER-MOLEN, RH
0181 223 Technology and use of lignite, Vol. 1 and 2
0677 27 The stage combustion coal-fired glass-furnace
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

VANDERBORGH, NE
0177 99 Heat-transfer through coals and other naturally occurring carbonaceous rocks
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 82 Electrochemical engines for power generation and load-leveling at sites for underground coal conversion
0178 83 Underground thermal generation of hydrocarbons from dry, Southwestern coals
0178 195 Convective heat-transfer through coal blocks
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0178 410 Combined CO//2-O//2 underground pyrolysis-gasification of southwestern coals, Quarterly Report, July-Sept, 1977
0179 117 Kinetics of sub-bituminous coal drying
0179 338 Combined CO//2-O//2 underground pyrolysis-gasification of southwestern coals, Quarterly Report October - December, 1977
0179 339 Combined CO//2-O//2 underground pyrolysis-gasification of southwestern coals, Quarterly Report January - March 1978
0477 94 Seventh Symposium on Coal Mine Drainage Research
0576 15 Disposal of coal preparation wastes: Environmental considerations
0576 17 Contaminants in coal and coal residues
0577 24 Environmental pollution by trace-elements in coal preparation wastes
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0578 119 Trace element characterization and removal/recovery from coal and coal wastes
1078 53 High-temperature carbon-dioxide/oxygen-coal reaction rate experiments
1081 226 Catalytic coal conversion support - use of laser flash-pyrolysis for structural analysis - October 1-December 31, 1980

VANDERHART, DL
1078 26 Carbon-13 Hydrogen-1 Cross-polarization nuclear-magnetic-resonance spectra of macerals from coal

VANDERHOOF, JD
0477 115 People problems on the way to survival

VANDILLEN, DE
0477 59 Three-dimensional analysis of a single and double-entry coal mine

VANDURONGWAN, V
0676 31 Fluidization technology, volume 1

VANGNITS, IL
0378 74 Thermal preparation of coals using vortex chambers

VANINETTI, G
0480 112 Mine plan optimization through the use of geologic and fuel quality control programs

VANINETTI, GE
0180 78 Coal Technology '80

VANKUIKEN, JC
0577 75 Modeling long-term coal production with the Argonne Coal Market model August 1977

VANLANDINGHAM, O
0580 58 Laboratory support

VANMEURS, P
0680 36 Laboratory studies of the rapid pyrolysis and desulfurization of a Texas lignite

VANNICE, MA
0178 404 Problem areas in catalytic production of fuels and chemicals from syngas

0280 199 A simultaneous IR/kinetic study of supported platinium methanation catalysts
1077 32 Catalytic formation of hydrocarbons from carbon monoxide, hydrogen gas mixtures and process for maintaining catalytic activity

VANSCOYOC, MW
1158 0 Submission of National Coal Association, Washington, D.C., to the Canadian Royal Commission on Energy

VANSUCH, ME
0181 176 Environmetrics of synfuels: I. Processing the automated PDP-11 data components for the UMD gasifier facility

VANVALKENBURG, ES
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

VARFOLOMEEV, DF
0181 154 Slow coking of liquid coal-processing products

VARGA, GM
0574 6 Trace-elements and potential pollutant effects in fossil-fuels
0678 226 Developing regenerable SO//2 sorbents for fluidized-bed coal combustion using thermogravimetric analysis
0679 97 New regenerable sorbents for fluidized-bed coal combustion

VARGHA-BUTLER, EI
1082 26 Determination of specific heats of coal powders by differential scanning calorimetry

VARGHESE, P
0281 342 Fundamental studies in the conversion of coals to fuels of increased hydrogen content, Volume 1: the chemistry and mechanisms of coal conversion to clean fuel - Interim Report
0281 343 Fundamental studies in the conversion of coals to fuels of increased hydrogren content, Volume 2: the chemistry and mechanisms of coal conversion to clean fuel - Appendixes - Interim Report
0282 49 The role of the catalyst in single and two-stage coal liquefaction
0282 182 Synergistic effects between light and heavy solvent components during coal liquefaction

VARISCO, DC
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

VARMA, AK
0677 142 Modeling two-phase flow in a swirl combustor. Final Report. ARAP Report No. 310

VARMA, PE
0182 23 Costs of producing fuel grade methanol and medium heating value gas by underground coal gasification

VASALOS, IA
0278 116 H-Coal fluid dynamics topical report, Part 1: Literature search
0279 27 H-coal fluid dynamics, annual technical report for the period August 1977 - August 1978
0280 45 Experimental techniques for studying the fluid dynamics of the H-coal reactor
0280 265 H-coal fluid dynamics - Study of ebullated bed fluid dynamics for H-coal - Final Report

VASANITS, E
0676 31 Fluidization technology, volume 1

VASCONCELIOS, SR
0281 32 Coal-oil mixtures. 2. Surfactant effectiveness on coal-oil mixture stability measured with a sedimentation column device
0281 33 Coal-oil mixtures. 3. Stabilization of powders vs. colloids: Coal/oil vs carbon-black/oil systems

VASEEN, VA

0280 134 Method and apparatus for hydrogen production in an absorber liquid by electrochemica reduction of coal and water

VASIL'EV, AG
1079 246 Ash analyzer for coal testing

VASIL'EV, EI
0477 80 Computer solution of geometrical problems in open-cut mining

VASIL'EV, YS
0380 117 Modern trends in thermal processing of coal shapes (briquettes)

VASILEVA, IA
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

VASSALLO, AM
0281 227 Deuterium as a tracer in coal liquefaction
0282 32 Effect of temperature, catalyst and charge gas on the mean chemical structures of the products from hydrogenation of Liddell coal
0282 163 Changes in aromaticity during coal liquefaction

VASSILAROS, DL
0281 84 Chemical class separation and characterization of organic compounds in synethic fuels

VASSILIOU, P
0178 333 Experimental analysis of the leaching characteristics of residual Hygas coal gasification solids
0580 154 Leach characteristics of coal-gasification char

VASTOLA, F
1080 187 Evaluation of an automated reflectance microscope system for coal characterization

VASTOLA, FJ
1076 32 Characteristics of American coals in relation to their conversion into clear energy fuels

VASUDEVAN, P
1079 154 Lignite substituted phenolic cation exchangers

VASYUCHKOV, EI
0380 142 Effect of ash levels in run-of-mine coal on the quality, quantity and technical-economic operating indices of a washery

VATSKY, J
0677 104 Studies of waterwall corrosion with staged combustion of coal
0681 188 Coal Technology '81, Vol. 3

VAUGH, GL
0579 21 Environmental aspects of coal production in the Appalachian region progress report for June 1978 - May 1979

VAUGHAN, J
0282 30 Surface changes in coal hydrogenation autoclaves that affect autoclave reactions

VAUGHAN, K
0479 233 Airstream helmets for use on longwalls

VAUGHAN, DA
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on

Battelle's multi-solids fluidized-bed combustion process
0677 111 Chloride corrosion and its inhibition in refuse firing
0678 196 Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Final report for the period June 1976 - Nov. 1977
0679 106 Erosion-corrosion effects on boiler tube metals in a multisolids fluidized-bed coal combustor

VAUX, WG
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 176 High-temperature pneumatic-transport line test facility
0179 326 Chemically active fluid bed for SOx control, Volume 1, process evaluation studies
0179 349 Design of refractories for coal gasification and combustion systems - Final Report
0277 132 Fluidization theories and applications
0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes

VAYENAS, CG
0179 151 A single coal particle gasification model
0181 134 The effect of homogeneous gas phase oxidations in char particle gasification

VCELAK, V
0381 77 Preparation of coal substrates for microbial purposes

VEAL, CJ
0180 106 Fuel composition and method for its preparation
0681 60 Coal-oil dispersions - an overview
0681 184 Solids Fuel/Oil Suspensions
0681 185 Solid fuel/oil dispersions containing metallo-porphyrins as stabilisers

VECCI, SJ
0280 37 Characterization and combustion of SRC 11 fuel oil
0378 2 Determine coal grindability
0677 261 Fuel and ash evaluation to predict electrostatic precipitator performance: a progress report
0678 257 Fuel and ash characterization and its effect on the design of industrial boilers

VEDAMURTHY, VN
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

VEEFKIND, A
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

VEJTASA, SA
0278 62 Electric utility fossil-fuels beyond 1985
0682 47 Technical assessment guide - Special Report

VELEZ, VG
0180 78 Coal Technology '80

VELICHKO, YM
0279 149 Determination of small amounts of nitrogen in the products of the processing fuels

VELUSWAMY, LR
0277 54 Catalytic hydrogenation of coal derived liquids and related polycyclic aromatic and heterocyclic compounds
0279 153 Hydrogenation of coal liquids in the presence of sulfided Ni-Mo/Al//2O//3
0282 196 Coal conversion in the presence of added hydrogen sulfide

VELZY, CO

0677 106 Three years of operating experience with a waterwall boiler at the oceanside disposal plant

VENDELL, EW
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

VENKATA, SS
0481 45 A technique for optimal sequential maintenance scheduling

VENKATESAN, S
0379 107 High gradient magnetic separation and its application in the coal industry

VENUTO, PB
0276 11 Process for producing low-sulfur liquid and solid-fuels from coal

VERAA, MJ
0178 9 Effect of alkali metal catalysts on gasification of coal-char

VERACHTERT, TA
0280 24 Trace acid removal in the pretreatment of petroleum distillate

VERAKIS, HC
0475 9 First Symposium on Underground Mining, Volume I

VERDEN, ML
0182 46 Safety considerations for synfuels plants

VERDONCK, JJ
0178 130 Carbon monoxide hydrogenation over ruthenium zeolites

VERESS, A
0480 59 Establishing a world's record for continuous miner production

VERGAMIMI, P
0682 10 Determination of the stability of coal-oil mixtures (COM) by infrared analysis

VERGAMINI, P
1080 192 Characterization of coals by infrared spectroscopy

VERGNES, F
0676 31 Fluidization technology, volume 1

VERGNES, V
0676 32 Fluidization technology, volume 2

VERHOFF, FH
0178 272 Coal processing technology, Volume IV
0179 25 Sour water stripping of coal gasification wastewater
0181 5 Process for power generation from wet air oxidation with application to coal gasification waste waters
0277 98 Indirect measurement of particle association effects in coal-derived liquids by x-ray photography
0278 48 The Influence of precipitated asphaltenes on sedimentation of particles in coal liquids
0280 147 Enhanced anti-solvent sedimentation of solids from liquids using pressurized carbon dioxide gas
0280 249 X-ray investigations of antisolvent and critical solvent ash removal from coal-liquids
0281 129 Indirect measurement of inclined sedimentation for ash in coal liquids at high temperature and pressure by x-ray photography
1078 19 Indirect measurement of sedimentation rates at high temperature and pressure by x-ray photography

VERKADE, ME

0180 191 A bibliography of hydrogen attack of steel and relevant ancillary topics

VERLHAC, P
0676 32 Fluidization technology, volume 2

VERMA, A
0178 89 Symposium on Coal Refining, Proceedings
0178 136 From coal to gas - Part II
0178 174 From coal to gas
0179 13 Small-scale coal-gasification plants
0181 114 Small industrial coal gasifiers - Part 1
1181 38 Trends in coal utilization in Saskatchewan

VERMA, CL
1080 121 Comparison of the characteristics of pitch coke and petroleum coke

VERMA, RK
0780 40 Use of electrical resistivity methods for study of some faults in the Jharia coalfield, India

VERMA, TR
0476 21 Fourth Symposium on surface-mining and reclamation
0477 19 Reclamation on the Black Mesa of Arizona
0479 258 Coal mine reclamation problems and practices in the Southwestern United-States

VERMA, YK
0481 121 Studies in virgin strata temperatures, with special reference to the NBC's Western Area Mines

VERMES, G
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

VERMEULEN, T
0277 83 Coal liquefaction studies using phosphoric-acid at moderate temperatures and pressures
0279 145 Kinetics and mechanics of metal carbonyl-catalyzed hydrogenation of aromatic hydrocarbon models for coal constituents, PhD thesis
0280 114 Coal liquefaction catalysis by zinc chloride melts in combination with organic solvents
0280 234 High-yield coal conversion in a zinc chloride/methanol melt under moderate conditions
0379 111 Oxydesulfurization of coal by acidic iron sulfate solutions
0679 190 Coal desulfurization prior to combustion
1077 29 Interaction of a sub-bituminous coal with a strong acid and a strong base
1079 174 Scanning electron microscopy study of the solubilization of coal under mild conditions

VERNEKAR, VR
0682 42 Thermal decomposition and ignition of coal

VERNO, LJ
0978 3 Application of coal petrography to exploration, preparation and sales at Pittston

VERNON, LW
0177 90 Coal processing technology, Volume 3
0281 155 Coal liquefaction process
1080 16 Free radical chemistry of coal liquefaction: role of molecular hydrogen

VERNON, RW
0979 7 Exploration techniques and the geological service within the National Coal Board

VERSCHUUR, E

0380 55 Process for the agglomeration of solids
0877 12 Agglomerating coal slurry particles
0877 14 A process for the preparation and pipeline transportation of a slurry of coal particles in water
0877 15 Processing a slurry of coal-particles in water
0878 50 Method for processing a slurry of coal particles in water
0880 12 Method for preparing a load of coal for transport by ship

VERZINO, WJ
1081 226 Catalytic coal conversion support - use of laser flash-pyrolysis for structural analysis - October 1-December 31, 1980

VESKI, RE
1078 167 The term humic acids
1081 149 A comparative study of the products of the oxidation of solid combustible minerals of different natures

VESTAL, ML
0173 20 Gasification of fossil fuels under oxidative, reductive, and pyrolytic conditions

VETTER, AF
1081 217 Morphological analysis of selected coal macerals

VIA, GH
1080 129 EXAFS studies of supported metal catalysts

VICK, RD
0678 223 Organic emissions from combustion of combination coal/refuse to produce electricity

VICKERS, AG
0281 58 Comparison of reactor systems for indirect liquefaction via Fischer-Tropsch technology
0282 78 A comparison of Fischer-Tropsch Reactors

VICTOR, JG
0680 103 Fluidized bed apparatus and process

VIDAL, R
0379 120 Manufacturing metallurgical coke

VIDEHOV, NB
0380 107 Process for thermal decomposition of phsophogypsum

VIDT, EJ
0173 12 Symposium papers, Clean fuels from coal
0178 252 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 2, Conversion work, equipment list and drawings, Phase III, Work scope, project schedule. Phase II. Final report, December 1977 - August 1978
0178 253 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 3, Design and construction cost estimates, overall program costs and schedule. Phase II. Final report, December 1977 - August 1978
0178 256 Conversion of Rapid-City pilot-plant: Phase II, Preliminary detailed design. Volume 1, Summary, Test programs, environmental assessment, gasifier control, and oxygen conversion. Phase II. Final report, December 1977 - August 1978
0179 326 Chemically active fluid bed for SOx control, Volume 1, process evaluation studies
0180 307 The Westinghouse coal gasification process
0277 132 Fluidization theories and applications
0673 14 Coal gasification for clean power generation
0673 22 Fluidized-bed oil gasification for clean power generation - Atmospheric and pressurized operation
0673 27 A pressurized fluidized-bed boiler development plant
0675 6 Fluidized-bed combustion process evaluation

0677 178 Experimental and engineering investigations for the development of fluidized-bed combustion processes

VIDYASAGAR, NS
0681 154 On coal conversion with a variable pressure combustor

VIEGELAHN, GL
0476 23 Second Symposium on Underground Mining

VIEL, D
0676 32 Fluidization technology, volume 2

VIENS, CH
1080 66 Recovery and upgrading of heavy oil analyzed

VIERRATH, H
0176 39 Present status and further developments of Lurgi pressure gasification process
0181 219 Coal Technology '81, Vol. 4

VIETOR, RH
0277 106 Issues relative to the development and commercialization of a coal-derived synthetic liquids industry. Management Issues, Volume III-1, Environmental Considerations affecting the development of a coal liquefaction industry. Final report, January 1975 - December 1976

VIGEANT, SA
0580 177 Atmospheric impacts of natural-draft cooling tower emissions: a case history

VIGRASS, L
0382 32 Thermal dewatering of lignite

VIJAYARAGHAVAN, D
1080 59 Water formed in combustion of coal

VILCHECK, WS
0481 53 Instantaneous circuit breaker settings for the short-circuit protection of direct current 300-and 600-v trailing cables
0481 54 Instantaneous circuit breaker settings for the short-circuit protection of three-phase 480-, 600-, and 1040-v trailing cables

VILJOEN, DA
1179 36 Importance of coal

VILLAUME, JF
0180 78 Coal Technology '80

VILLEY, M
0280 170 Influence of elemental composition on carbonization. Pyrolysis of kerosene shale and kuckersite

VILLIERS-FISHER, JF
0180 76 Costs of environmental control processes for low Btu coal gasification plants
0581 7 Potential costs of complying with emission regulations for an indirect coal liquefaction process

VINARSKII, MS
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

VINDIOLA, A
0281 67 Liquid sulphur dioxide - a reagent for the separation of coal liquids

VINEBERG, EJ
0180 174 Mechanism of corrosion of structural materials in contact with coal chars in coal gasifier atmospheres - final report

VINIKOUR, WS
0476 22 Sixth Symposium on Coal Mine Drainage Research
0578 113 A biologist's manual for the evaluation of impacts of coal fired power plants on fish, wildlife, and their habitats

VINK, N
0279 160 Results of the low-temperature destructive hydrogenation of a kerogen concentrate of the Estonian combustible shale kuckersite

VINOD, K
0182 23 Costs of producing fuel grade methanol and medium heating value gas by underground coal gasification

VINOGRADOV, LM
0178 370 Some questions of the mathematical modelling of the gasification of coal in a fluidized bed under pressure

VINOGRADOV, SV
1079 193 Influence of some factors on the yield of coke from pitch-coke compositions

VINOKUROVA, EB
1078 157 Significance of sorption studies for practical coal mining
1078 159 Study of gas sorption in coals using laser methods
1079 144 Mass spectrometry study of the gaseous products of coal desorption

VINOPAL, R
1079 81 X-ray radiography of coal

VINSON, RP
0478 26 Methane accumulations in coal mine roof cavities

VIOLA, A
0679 21 Removal of sulfur during the combustion of coal by adding limestone

VIOLA, MA
0678 266 Studies for the stabilization of coal-oil slurries (COM)-Technical Progress Report for August-November, 1978
0679 194 Coal-oil mixtures: their technical and commercial status

VIR-KATHURIA, D
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

VIRGIL'EV, YS
1080 202 A study of the supermolecular structure of carbonaceous materials

VIRGONA, JE
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

VIRK, PS
0173 48 Thermal hydrogasification of aromatic compounds

VIRR, MJ
0673 18 Small scale applications of fluidized-bed combustion and heat-transfer
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

VISMAN, J
0382 6 Raw coal variability and process control
1059 2 A laboratory study of the binderless briquetting of Western Canadian coals
1059 3 Briquetting coal with binders and statistical evaluation of briquet tests

VISSER, P
0380 30 Naphtha wash eliminates soot problem

VISWANADHAM, P
0179 279 A four component model for the vaporization of seeded slags - the system potassium oxide - calcium-oxide - aluminum-oxide - silica

VISWANATHAN, VN
0380 49 A process for separation of silica from siliceous magnesian limestones

VITALE, JE
0577 80 Permeability and related properties of coal refuse

VITKOVSKY, K
0980 1 Russia's biggest coal project gets underway in Siberia

VITRENKO, VU
0379 68 A controllable electric drive, incorporating protection against explosion, for automatic belt-feed batchers

VLASENKO, BV
0477 79 Three-dimensional experimental-analytical method of determining the mechanical state of the rock in-situ
0477 154 Analytical representation of the displacements in the roof rocks during working of seams with stowage of the worked-out area and caving
0478 269 Surface of abutment pressure and resistance of stowage during working a coal seam
0478 307 Roof rock kinematics during working of coal seam with stowage
0779 6 Influence of geological and mining extraction-field anomalies on rock pressure phenomena

VLASOV, NA
1078 165 The question of the ashing of coals in the determination of trace elements

VLASOV, VP
0379 67 Automatic system for stabilizing reagent delivery rates in coal flotation

VLASOVA, NS
0379 72 Mechanism of the action of water glass in the flotation of Karaganda coals

VLUGTER, JC
0273 2 The effect of hydrogen sulfide on the hydrodenitrogenation of pyridine

VO-DINH, T
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0280 171 Identification and quantification of polynuclear aromatic compounds in synthoil by room-temperature phosphorimetry.
0281 47 Direct determination of selected polynuclear aromatic hydrocarbons in a coal liquefaction product by synchronous luminescence techniques

VOCKE, RW
0581 80 Handling of combustion and emission-abatement wastes from coal-fired power plants: Implications for fish and wildlife resources

VODOLAZHCHENKO, VV
0180 175 A complex mass-spectrometric and derivatographic investigation of the initial stages of the transportations of

coals
0680 175 Features of the quantitative analysis of the volatile products liberated on the heating of coals using the mass-spectrometric method
1079 203 Features of a procedure for the mass-spectrometric analysis of the volatile products liberated in the heating of coals
1080 101 A mass-spectrometric investigation of the yield of volatile matter when coal is heated to 450-deg-C

VODYANITSKII, VP
0879 29 Evaluating possible ways of improving the economic effectiveness of long-distance hydraulic coal transport systems

VOELKER, G
0680 23 Status report on coal-oil mixtures and fluidized-bed research, development and demonstration

VOGAN, J
0679 187 Proceedings of the first conference on advanced materials for alternative-fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

VOGEL, G
0881 31 Theoretical considerations and laboratory investigations about water hammer propagation velocity in slurry pipelines
0882 16 Calculating transient flows in slurry pipelines

VOGEL, CA
0179 153 Fuel conversion and its environmental effects

VOGEL, GH
0678 189 Support studies in fluidized-bed combustion, Annual Report July 1977 - Sept. 1978

VOGEL, GJ
0178 272 Coal processing technology, Volume IV
0579 13 Regeneration of sulfated limestone from FBCs and corrosive effects of sulfation accelerators in FBCs. Annual Report July 1977 - September 1978
0673 1 Bench scale development of combustion and additive regeneration in fluidized-beds
0676 12 Removing sulfur emissions from a fluidized-bed combustion process
0676 17 A development program on pressurized fluidized-bed combustion. Annual report July 1975 - June 1976
0677 39 Reducing the environmental impact of solid wastes from a fluidized-bed combustor
0677 66 Fluidized-bed regeneration of sulfated dolomite from a coal-fired FBC process by reductive decomposition
0677 130 Supportive studies in fluidized-bed combustion
0677 175 Sulfated limestone regeneration and general FBC support studies
0678 21 Factors limiting limestone utilization efficiency in fluidized-bed combustors
0678 78 Highlights of studies on fluidized-bed combustion of coal - 1977
0678 88 Testing of a pulsed L-valve feeder for use in fluidized-bed combustion and sorbent regeneration units
0678 133 Regeneration of sulfated dolomite by reductive decomposition with coal in a fluidized-bed-reactor
0678 134 High-temperature fluidization and agglomeration characteristics of limestone and coal-ash particle systems
0678 200 Evaluation of on-line light-scattering optical particle analyzers for measurements at high temperature and pressure

VOGEL, WG
0475 7 Third Symposium on Surface-mining and reclamation, Volume I
0475 8 Third Symposium on Surface-mining and reclamation, Volume II

VOGELSANG, CW
0678 163 Operating costs of particulate removal schemes

VOGH, JW
0280 218 The composition of liquids from coals of different rank

0281 74 Preparative liquid chromatography for fractionation of petroleum and synthetic crude oils
0281 236 The composition of liquids from coals of different rank

VOGT, C
0581 85 Environmental chemical investigations of trace element mobilization in synthetic fuels manufacture

VOGT, CR
0180 204 Chromatographic characterization of organic by-products of simulated in situ coal gasification

VOGT, DP
0181 199 Environmental implications of small fixed-bed gasifiers for industry

VOGT, EV
0180 10 Status of the Shell-Koppers process
0180 207 Centrifugal pump for powder and a process and apparatus for the gasification of coal powder

VOGWILL, RI
0178 51 Hydrogeological and air-acceptance testing associated with the Forestburg underground coal gasification project
0178 54 Hydrogeological testing and consideration associated with underground coal gasification in Alberta
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 213 Hydrogeological testing associated with underground coal gasification

VOIGT, R
0976 0 Coal Exploration

VOITKOVSKII, YB
1078 148 Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process
1078 159 Study of gas sorption in coals using laser methods
1078 164 A study of the processes of the reduction of hematite by natural coals
1079 143 On the problem of the structural parameters of coals
1079 148 Question of the chemical structure of hard coals
1080 206 A study of the influence of carbonaceous rocks on the oxidation of Chernogorsk coal

VOJNOVICH, T
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 349 Design of refractories for coal-gasification and combustion systems - Final Report

VOL'-EPSHTEIN, AB
0280 315 Thermal dissolution of combustible shales and coals

VOL'POVA, LS
1080 150 Determination of the genetic type of anthracites from the index of the anisotropy of the reflection of the vitrinite

VOLBORTH, A
1076 0 Moisture in coal and significance of accurate determination of oxygen
1076 18 Oxygen in the U.S. Bureau of Mines' coal-ash, U.S. Bureau of Standards' coal fly-ash reference material and low-temperature coal-ash. A simplified approach to the analysis of ash and mineral matter in coal
1076 33 Material balance in coal 1. Material balance and oxygen stoichiometry of six coals from the Wyodak bed, Campbell County, Wyoming
1078 9 Material balance in coal. 2. Oxygen determination and stoichiometry of 33 coals
1078 100 Study of oxygen stoichiometry and analysis of coal, lignite, coke, and derivatives. Final report, March 1976 - July 1978

VOLGINA, IV
0278 185 Separation of the nitrogenous bases obtained in the processing of a solid-fuel

VOLKOV, TM
0178 368 Gasification of ash-rich coals and carbonaceous rocks with the complete utilization of the products formed

VOLODARSKII, I
0280 310 The forms of molybdenum compounds in the sludges from the coal liquefaction process

VOLOVIK, AV
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

VOLTZ, SE
0176 114 Development studies on conversion of methanol and related oxygenates to gasoline, final report
0679 133 Upgrading coal liquids to turbine fuels

VOMACKA, J
1077 65 New trends in coal utilization

VON-DEMFANGE, WC
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

VON-DER-LINDEN, W
0476 23 Second Symposium on Underground Mining

VON-HIPPEL, HJ
0168 4 Method and system for gasifying underground deposits of coal

VON-KRESS, BN
1078 17 Molecular complex between humic substance from brown-coal and aromatic hydrocarbon

VON-ROSENBERG, CW
0179 223 Coal gasification in steam at very high-temperatures
0280 333 Indirect liquefaction via the Avco coal gasification system
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

VON-ROSENSTIEL, AP
0581 81 Investigation of fly ash particles with respect to the morphology and surface enrichment of matrix and trace elements

VON-SCHONFELDT, H
0281 284 Occidental controlled flash pyrolysis process and its application to power generation
0480 144 Subsidence and its effect on longwall mine design

VON-WOLFF, WT
0679 125 A mineralogical investigation into problems associated with the particle-size analysis of fine grit from a pulverized-coal-fired power-station

VONDERLINDEN, W
0479 209 Half-face longwalling eases dust problems

VONHOF, JA
0580 93 The effects of surface mining of coal on water quality near Grande Cache, Alberta

VONROSENBERG, CW
0181 101 The Avco gasifier in a combined cycle power plant

VORA, MK
0180 242 Historical development of the U-Gas process at the IGT pilot plant
0678 33 Low-Btu-gas from the IGT ash-agglomeration gasification process
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

VORNDRAN, LD
0280 52 Bitumen separation for experimental use

VOROB'EVA, LV
0279 142 Catalytic alkenylation of fluorene by allyl alcohol

VOROB'EVA, NF
0681 109 Dependence of the rate of thermal treatment of coal-polymer blanks on the heat of the transition of a polymer with a cross-linked structure into coke
1081 133 Production of coal-graphite materials on the basis of a modified pitch binder

VOROBYOV, VS
0677 149 Carbon-dioxide magnetohydrodynamic laser

VORONINA, TB
0578 82 Use of natural coals for the purification of industrial effluents containing emulsified oils

VOROPAEV, VN
1079 213 Experience of the use of microphotometry in the study of solid bitumens

VOROS, L
0679 76 Pulverized coal firing with fluidization

VOROZHTSOV, YV
0480 176 The flow of a gas-coal particle mixture in coal mines with the desorption phenomenon taken into account

VORRES, KS
0177 22 Hygas Process Update
0179 314 Chemistry of coal ash melting in gasification and combustion
0180 83 Status of coal gasification processes
0281 147 Overview of coal conversion to gases and liquids

VOSS, GD
0180 78 Coal Technology '80
0181 99 Performance characteristics of the solid fuels gasification type burner

VOST, K
0479 149 Heat storage in steel arches in gate roadways

VOTH, RO
0175 27 Selected topics on hydrogen-fuel

VOZNY, GF
0380 140 Dewatering coal concentrate on a screen by blowing with compressed air

VOZNYI, GF
0379 113 Improved dewatering of fine coal concentrate
1079 175 Certain problems of methodology and experimental techniques for analysis of coal-tar extracts

VRABLE, DL
0279 225 Production of liquid fuels with a high-temperature gas-cooled reactor

VUKOVIC, DV
0676 31 Fluidization technology, volume 1

VYAS, KC
0174 4 Clean fuels from coal - Introduction to modern processes
0178 92 Medium-Btu-gas fits refiner's needs
0179 136 Gas from coal for iron-ore pelletizing

VYLEGZHANIN, VN
0477 188 Theoretical principles of synthesis of dynamic adaptive models of mining processes

VYRVICH, GP
1079 159 Petrographic characterization of the carboniferous coals of the Lvov-Volyn basin relating to different phases of development of the paleo- peat bed
1080 150 Determination of the genetic type of anthracites from the index of the anisotropy of the reflection of the vitrinite

VYSOTSKIY, DA
0675 12 Development and study of high temperature materials for various components of MHD installations

VYSOTSKY, DA
0678 97 Results of tests and studies of American materials in the channel of the MHD facility U-02, (phase III)
0678 98 Tests and studies of U.S.S.R. materials at the U.S. coal burning MHD facility UTSI-2
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

VYZAS, KC
0173 12 Symposium papers, Clean fuels from coal

WACHOWSKA, H
1077 3 Effect of cleavage of ether linkages on physicochemical properties of coals
1079 65 Chemical structure of coals as indicated by reductive alkylation

WACHTER, RA
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0477 94 Seventh Symposium on Coal Mine Drainage Research
0577 37 Water pollution from drainage and runoff of wastewater from coal storage areas
0578 16 Water pollutants from coal storage areas
0578 18 Source Assessment: Coal storage Piles

WACHTLER, FC
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WADA, T
0281 116 Fuel compositions comprising coal-liquid fuel mixture

WADDELL, C
1078 69 Study of the interrelationships among chemical and petrographic variables of United-States coals, Technical report 9

WADDEN, RA
0578 101 Energy utilization and environmental health: Coal hydrogenation evaluation

WADE, D
0181 223 Technology and use of lignite, Vol. 1 and 2

WADE, P
0478 114 Coal handling at the coal face in thin seams at Annesley colliery
0479 108 Installation of a shaft cable

WADE, DT
0280 307 Exxon Donor Solvent coal liquefaction process: development program status
0281 49 Donor solvent coal liquefaction
0282 194 Coal liquefaction - A status report (VII) on Exxon's Donor Solvent Process

WADE, EJ
0377 84 Reduction of mineral matter in coal throughout a preparation plant

WADE, GL
0673 9 Fluidized-bed combustion of municipal solid waste in the CPU-400 pilot plant
0678 157 Granular-bed filter development program. Final report

WADE, LV
0480 190 Rock mechanics study of a longwall panel

WADE, WA
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0477 94 Seventh Symposium on Coal Mine Drainage Research

WADIA, PH
0678 117 Slugging in beds of large particles

WAGNER, H
0480 8 Pillar design in coal mines
0480 26 Longwall mining in shallow, moderately thick South-African coal seams

WAGNER, K
0280 329 Chemical changes in coal liquefaction
0380 164 Low temperature chemical fragmentation of coal
1080 85 Dihydroaromatic structure of Illinois No. 6 Monterey coal

WAGNER, P
0177 99 Heat-transfer through coals and other naturally occurring carbonaceous rocks
0178 195 Convective heat-transfer through coal blocks
0477 94 Seventh Symposium on Coal Mine Drainage Research
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0579 121 Costs of coal and electric power production-the impact of environmental control technologies for coal-cleaning plants
0580 133 Trace element characterization and removal from coal and coal wastes
0581 86 Leaching experiments on coal preparation wastes: Comparisons of the EPA extraction procedure with other methods
1078 53 High-temperature carbon-dioxide/oxygen-coal reaction rate experiments

WAGNER, AF
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WAGNER, JM
0580 9 Trace-element contamination of drainage from coal cleaning wastes

WAGONER, CL
0277 39 Preparation and burning of Solvent-Refined-Coal
0667 1 Burning profiles for solid fuels

0677 261 Fuel and ash evaluation to predict electrostatic precipitator performance: a progress report
0678 257 Fuel and ash characterization and its effect on the design of industrial boilers
0678 258 The pulverization and combustion of solvent refined coal - laboratory and pilot studies

WAGONER, DE
0178 147 Analysis of a semi-batch coal gasifier product-gas using an automated gas-chromatograph
0179 323 Pollutants from synthetic fuels production: Sampling and analysis methods for coal gasification
1079 83 Response correlation of low molecular weight sulfur compounds using a novel flame photometric detector

WAHL, AC
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WAHLER, WA
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0475 10 First Symposium on Underground Mining, Volume II

WAHLQUIST, BT
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

WAIBEL, RT
0179 290 Development of combustion data to utilize low-Btu gases as indusrtrial process fuels - project 61004, final report
0678 83 Development of combustion data to utilize low-Btu gases as industrial process fuels, Project 8985 Annual Report, Oct. 1976 - Sept. 1977
0678 170 Development of combustion data to utilize low-Btu-gases as industrial process fuels. Project 8985 Special report No. 2, Kiln Burner
0678 178 Development of combustion data to utilize low-Btu-gases as industrial process fuels. Project 8985 Special report No. 3., Nozzle-mix burner
0678 179 Development of combustion data to utilize low-Btu-gases as industrial process fuels. Project 61004 Special report No. 5., Flat-flame burner
0678 214 Development of combustion data to utilize low-btu-gases as industrial process fuels: special report no. 4. High-forward Momentum burner
0679 37 Development of combustion data to utilize low-Btu-gases as industrial process fuels, Project 61004 Special report no. 7, Premix tunnel burner
0679 40 Development of combustion data to utilize low-Btu-gases as industrial process fuels, Project 61004 Special Report No. 8, Boiler Burner
0679 42 Development of combustion data to utilize low-Btu-gases as industrial process fuels, Project 61004 Annual status report for Oct. 1977 - Sept. 1978
0679 47 Development of combustion data to utilize low-Btu-gases as industrial process fuels, Project 61004, Special Report No. 6, High-excess air burner

WAILES, PC
0275 26 Coal hydrogenation using throw-away catalysts
0280 16 Continuous hydrogenation of Yallourn brown-coal tar
0280 253 Conversion of coal to liquid products by flash pyrolysis
0281 232 Deactivation of catalytic surfaces and coal liquefaction processes

WAINAI, T
1082 6 Determination of bridgehead aromatic carbons in coal-derived materials

WAIT, JR
0478 308 Analytical bases for eletromagnetic sensing of coal properties - final report

WAITE, BA
0482 0 Ground water monitoring of undergound coal mines

WAITE, JL

0478 53 Prebolting system at Renton Mine cuts overcast construction time

WAITZMAN, DA
0175 2 Evaluation of fixed-bed, low-Btu coal gasification systems for retrofitting power plants
0177 96 Evaluation of intermediate-Btu-coal gasification systems for retrofitting power plants
0178 6 Ammonia from coal: A technical/economic review
0180 78 Coal Technology '80

WAKABAYASHI, J
0479 87 Slurry pumped 3000-feet vertically

WAKELEY, LD
0279 44 The nature of solids accumulated during solvent-refining of coal

WALAWENDER, WP
0678 119 Transfer of solids between parallel fluidized-beds

WALDHAUS, F
0578 123 Resource and potential reclamation evaluation Hanging Woman Creek study area

WALDHECKER, H-D
0181 219 Coal Technology '81, Vol. 4

WALDHOFER, R
0180 96 Communicator for use in a gasifying installation

WALDIE, JR
0479 240 Early Experience of the Federal Mine Safety and Health Review Commission

WALESKI, WE
0879 37 New look at effective use of trucks

WALFISH, A
0882 61 Rotterdam slows port development

WALK, MJ
0880 37 Evaluating freeze conditioning agents at the Union Electric Company

WALKER, A
1082 11 A scanning electron microscope study of fractured and etched metallurgical coke surfaces

WALKER, C
0479 78 Seismic methods for coal mine planning

WALKER, G
0477 183 Braking system problems off-highway vehicles
0682 32 Stirling engines for power production with coal and solid waste

WALKER, J
0579 65 Feasibility of alternatives for surface utilization of coal wastes - final technical report

WALKER, AB
0577 61 Operating experience with hot-precipitators on Western low sulfur coals

WALKER, DJ
0679 99 Fluidized-bed combustion technology for industrial boiler of the future - A progress report

WALKER, DK
0476 29 Second Institute on Coal Mine Health and Safety
0479 235 HSAC overview

WALKER, IK
1078 132 Gaseous exothermic oxidation of coal. 2. Aerial oxidation of fresh coal

WALKER, JB
0665 0 Utilization of solid fuel having lignite type ash

WALKER, JL
0376 3 Second Symposium on Coal Preparation

WALKER, PL
0176 25 Use of Pennsylvania-coals in low-Btu gasification processes: A Preliminary Study. Special Research Report SR-112
0177 69 Studies on coal reactivity: Kinetics of lignite pyrolysis in nitrogen at 808-degrees-C.
0177 224 Effects of heat treatment conditions on reactivity of chars in air
0178 222 Unification of coal-char gasification reaction mechanisms
0178 374 Gasification rates as related to coal properties
0179 142 Reactivity of heat-treated coals in steam
0179 320 Isothermal furnace studies of the kinetics of lignite pyrolysis
0179 333 Kinetics of lignite pyrolysis in fixed bed and entrained flow reactors
0180 202 Pore system in coal chars. Implications for diffusion parameters and gasification
0181 1 Scientific basis of coal gasification
0274 10 The relation of coal characteristics to coal liquefaction behavior
0275 29 Characterization of mineral matter in coals and coal liquefaction residues, annual report
0277 128 Characterization of mineral matter in coals and coal liquefaction residues. Annual report
0278 201 The relation of coal characteristics to liquefaction behavior. Quarterly progress report
0279 44 The nature of solids accumulated during solvent-refining of coal
0280 354 Characterization of mineral matter in coals and coal liquefaction residues
0579 25 Effect of inorganic matter removal from coals and chars on their surface areas
0781 1 Coals as colloidal systems
0781 11 Inorganic constituents in American lignites
1076 32 Characteristics of American coals in relation to their conversion into clear energy fuels
1077 72 Effect of cation exchange on the subsequent reactivity of lignite chars to steam, Technical report No. 4
1077 74 Characteristics of chars produced by pyrolysis following rapid heating of pulverized coal, Technical report 2
1079 102 Investigation of retrogressive reactions leading to the carbonization of solvent-refined-coal
1079 140 The effects of impregnation of coal by alkali salts upon carbonization properties
1080 77 Production of pyrrhotites by pyrite reduction
1080 100 Measurement of swelling of coals in organic liquids - A new approach
1080 186 The effects of preoxidation on the swelling and softening of bituminous coals
1081 5 Microporosity in coal: its characterization and its implication for coal utilization
1081 9 Low temperature air oxidation of caking coals: Fourier transform infrared studies
1081 23 Effect of surfaces on the yield of volatiles from coal
1081 163 Structure of coals and their conversion to gaseous fuels
1082 5 Low-temperature air oxidation of caking coals. 2. Effect on swelling and softening properties

WALKER, RL
1073 11 Trace impurities in fuels by isotope dilution mass-spectrometry

WALKER, SC
0478 228 Foundation piles at Rawdon Colliery

WALKER, WM
0680 182 Calcination of bauxite pisolites and phosphate rock using a coal-fired fluidized bed

WALL, AE
0680 97 Composition comprising a pulverized purified substance, water and a dispersing agent, and a method for preparing the composition

WALL, DR
0180 106 Fuel composition and method for its preparation
0681 60 Coal-oil dispersions - an overview
0681 184 Solids Fuel/Oil Suspensions
0681 185 Solid fuel/oil dispersions containing metallo-porphyrins as stabilisers

WALL, FM
0178 272 Coal processing technology, Volume IV

WALL, JD
0281 217 Synfuels - birth of an industry

WALL, TF
0679 111 Mineral matter in coal and the thermal performance of large boilers
0680 210 Combustion of particles in a large pulverized brown coal flame
0681 76 Fly ash characteristics and radiative heat transfer in pulverized-coal-fired furnaces
0682 0 Alkali-ash reactions and deposit formation in pulverized-coal-fired boilers: the thermodynamic aspects involving silica, sodium, sulphur, and chlorine
0682 1 Alkali-ash reactions and deposit formation in pulverized-coal-fired boilers: experimental aspects of sodium silicate formation and the formation of deposits

WALLACE, I
0478 77 The transportation of the Canadian Mining Industry

WALLACE, J
0281 212 Co-cracking of ethane and naphtha in millisecond pyrolysis furnaces

WALLACE, WE
0179 228 Trigeneration: a new approach to coal-based cogeneration
0180 233 Synthesis gas reactions using catalysts formed by oxidizing Ni-containing intermetallic compounds
0280 195 Synthesis-gas reactions over catalysts formed by oxidation of thorium-containing intermetallic compounds
0580 171 Workshop on sulfur chemistry in flue gas desulfurization

WALLACH, S
0578 85 Preliminary evaluation of PETC-coal conversion solid and hazardous wastes, Progress report for September 1977 - September 1978
0580 195 Laboratory leaching of coal conversion solid wastes - Progress Report, November 1, 1979-January 31, 1980

WALLBANK, B
1077 100 An XPS study of the oxidation of pyrite and pyrites in coal

WALLHAGEN, RE
0476 23 Second Symposium on Underground Mining
0477 147 Development of optimized diffuser and spray fan systems for coal mine face ventilation
0478 197 A continuous slipformed - concrete lining system compatible with the Blind Shaft Boring Machine, Final Technical Report

WALLI, DP
0481 57 Coal mining at the Smoky River minesite, McIntyre Mines Limited

WALLICK, EI
0581 2 Assessment of reclamation potential and hydrologic impact of large-scale surface mining of coal in plains areas of Alberta - Summary Report of Activities, Vol. I, II, III

WALLIN, CC
0278 116 H-Coal fluid dynamics topical report, Part 1: Literature search

WALLIS, PM
0580 120 The role of organic compounds in salinization of plains coal mining sites

WALLMAN, D
0481 146 Proposed single entry development at Pelton/Ellalong Colliery

WALSH, DE
0281 117 Liquefaction of carbonaceous materials

WALSH, FM
0579 90 Inhibition of pyrite weathering by recycling of selected effluents

WALSH, JF
0579 100 Utilization of legumes in the revegetation of environmentally stressed arid mine spoils

WALSH, JH
0459 0 The role of Canadian coal in the iron and steel industry in Western Canada
1059 0 Interim data on coke oven operating practice in three central Canada steel plants

WALSH, JV
0177 203 Requirements for on line composition analysis of coal gasification process streams using optical methods
0178 203 Gasifier temperature measurement, Final report. Series No. 11: F - 6
0178 378 Dry solids flow meter, final report

WALSH, PJ
0181 199 Environmental implications of small fixed-bed gasifiers for industry

WALSH, PM
0179 73 A review of ammonia and hydrogen-cyanide concentrations in low and medium-Btu coal gases

WALTER, FB
0181 51 Cool water coal gasification

WALTERS, AD
0376 3 Second Symposium on Coal Preparation

WALTERS, DC
0277 36 An experimental investigation of a coal slurry fueled diesel-engine

WALTERS, EA
0179 103 Hydrologic and environmental findings: San Juan UCC site
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WALTERS, GR
0381 11 Composition for reducing the strength of ice

WALTERS, JG
1063 3 Plastic, agglutinating, and free-swelling properties of American coals
1067 2 Yields and analyses of tars and light oils from carbonization of U.S. coals

WALTERS, RW
0178 261 Characterization of effluent from the Bi-Gas pilot-plant
0181 177 Evaluation of treatment technologies for water reuse in coal gasification

WALTON, G
0478 287 Some geotechnical considerations in the planning of surface coal mines

WALTON, BL
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

WALTON, DR
0479 187 The effects of long-term coal supply contracts on technology adoption and improvements in the mining of coal, final technical report

WALTRIP, OR
0280 133 Method of extracting a liquid electrolyte and other products from coal

WAMPLER, FB
0581 58 Spectroscopy and reaction kinetics of HS radicals

WAMPLER, JA
0477 93 Third Institute on Coal Mine Health and Safety

WAN, E
0176 7 Process synthesis and optimization of fixed bed methanation in coal gasification process

WANEK, PL
0477 94 Seventh Symposium on Coal Mine Drainage Research
0576 37 Environmental contamination from trace-elements in coal preparation wastes - A literature review and assessment
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0578 119 Trace element characterization and removal/recovery from coal and coal wastes
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0580 9 Trace-element contamination of drainage from coal cleaning wastes
0580 133 Trace element characterization and removal from coal and coal wastes
0581 86 Leaching experiments on coal preparation wastes: Comparisons of the EPA extraction procedure with other methods
1078 60 Trace-element distributions in several coal conversion processes

WANG, J
0279 193 Carbon monoxide-water vs. hydrogen for liquefaction: The reduction of diphenylsulfide, thioanisole and dibenzothiophene
0280 238 Carbon monoxide-water vs. hydrogen for liquefaction: the reduction of diphenylsulfide, thioanisole and dibenothiophene
1079 37 Molecular interaction of quinoline with coal-liquid fractions

WANG, R
0681 7 An information system for the 80s

WANG, Z
0280 90 Recovery of heavy coal-derived liquids by pressure fluid extraction
0280 332 The thermochemical effects of gas-coals in pyrolysis process

WANG, CY
0779 31 The development of China's coal industry

WANG, ET
0178 307 LLL environmental studies of in-situ coal gasification annual report fiscal year 1977

WANG, FD
0477 61 Coal mine pillar strength and deformation prediction through laboratory sample testing
0477 77 Application of cement-grout to coal mine roof-bolting
0479 143 Augmentation of small-hole rock drilling with water jets

WANG, FT
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 26 Ground-water quality near an underground coal gasification experiment
0179 116 The sorptive property of coal
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0182 60 UCG environmental research - summary and suggested projections

WANG, GS
0882 46 Coal slurry shiploading world trade applications

WANG, HF
0177 66 Fracture mechanics and stress analysis associated with underground coal gasification
0178 32 Thermoelastic solutions for in-situ gasification of coal

WANG, JC
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

WANG, JY
0180 296 Analysis of failed thermocouple assemblies from the IGT HYGAS coal-gasification pilot plant

WANG, KC
0276 38 Hydrogenation of phenanthrene over a commercial cobalt molybdenum sulfide catalyst under severe reaction conditions

WANG, PY
0179 68 Application of availability engineering to coal gasification systems: A study of a Woodall/Duckham low-Btu gasifier system

WANG, SC
0180 156 Thermal and diffusional effects in noncatalytic solid gas reactions

WANG, SS
0380 62 Process for beneficiation of non-sulfide iron-free ores
0380 70 Process for dewatering mineral and coal concentrates
0380 71 Dewatering aid for processing mineral concentrates
0380 99 Process for beneficiation of phosphate and iron ores
0380 151 Process for dewatering mineral concentrates
0380 155 Process for dewatering mineral concentrates

WANG, ST
0681 50 Construction program for a large superconducting MHD magnet system at the coal-fired flow facility

WANG, YG
0281 359 Process for minimizing solids contamination of liquids from coal pyrolysis

WANG, YJ
0478 208 Systems concept for coal mine ventilation

WANGEN, LE
0578 60 Elemental deposition downwind of a coal-fired power-plant

0580 61 Trace-elements in vegetation downwind of a coal-fired power-plant
0580 133 Trace element characterization and removal from coal and coal wastes
0581 37 Elemental composition of size-fractionated aerosols associated with a coal-fired power plant plume and background
0676 40 A review of trace element studies related to coal combustion in the four corners area of New Mexico
0678 61 Observations on boron release from coal-fired power-plants

WANGEN, LW
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0580 9 Trace-element contamination of drainage from coal cleaning wastes

WANKAT, PC
1082 43 Moving feed point gel permeation chromatography. An improved preparative technique

WANLESS, HR
1052 2 Second Conference on the origin and constitution of coal

WANZL, W
0282 94 Results of the IEA pyrolysis project at Bergbau-Forschung

WARD, B
0779 18 Opencase coal reserves at Springhill

WARD, P
0880 14 Getting the load out

WARD, CE
0281 77 On the short-residence time hyropyrolysis of single coal particles: the effect of unequal diffusivities

WARD, CR
0780 46 Developments in coal mine geology
0780 47 Developments in coal mine geology

WARD, JF
0678 3 Energy Management for Furnaces, Kilns, and Ovens NBS Handbook 124

WARD, JV
0479 220 Environmental effects of Western Coal surface mining. Part 1. The limnology and biota of mine spoils ponds in northwest Colorado

WARD, ME
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

WARD, RG
1181 21 Progress towards synthetic fuel production in Australia and New Zealand

WARD, SA
0180 4 Catalysts in coal-based ammonia plants

WAREHAM, FD
0181 219 Coal Technology '81, Vol. 4

WARG, JB

0474 3 Fifth Symposium on Coal Mine Drainage Research
0475 5 Up-dip versus down-dip mining: An evaluation

WARING, D
0881 0 The world coal trade

WARNE, SS
1079 117 The identification of magnesite from pyrite in coal by DTA

WARNER, BL
0475 9 First Symposium on Underground Mining, Volume I

WARNER, DL
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

WARNER, EM
0479 29 Noise problems with underground mining machinery

WARREN, T
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976

WARREN, CA
0280 119 Catalyst and conversion of synthesis gas therewith
0280 126 Conversion of synthesis gas with iron-containing catalyst

WARREN, GF
0779 36 Evaluation of the coal reserves in the Whitwell Shale in the Southern Cumberland plateau in Tennessee - final report

WARREN, IH
0177 28 Hat Creek Coal Utilization
0177 49 Evaluation of gasification reactivities of coals by differential-thermal-analysis
0178 89 Symposium on Coal Refining, Proceedings
0178 334 UK studies of liquids from coal
0179 268 Synthetic fuels from coal: slow progress towards a vital goal
0277 21 Solvent refined coal - the process and its potential for Canada
1078 38 Hot-compaction behavior of char/binder-coal systems
1081 88 Influence of char porosity on strengths of hot-briquettes

WARZINSKI, RP
0377 49 Oxidative desulfurization of coal
0380 147 Air/water oxydesulfurization of coal - Laboratory investigation

WASAN, D
0281 330 Separation of particles from coal derived liquids via surface charge properties

WASAN, DT
0380 67 Cross-flow electrofilter and method
0582 6 The IIT flue gas desulfurization process

WASHINGTON, JN
0281 30 Coal-liquefaction products, shale-oil, and petroleum. Acute toxicity to freshwater algae

WASP, EJ
0381 78 ETSI coal evaluation plant
0878 5 Terminal facilities for Western-coal slurry pipelines

0879 13 Coal slurry pipelines for the next decade
0881 15 An update of the ETSI pipeline
0881 24 Progress report on the ETSI coal slurry pipeline
0882 32 ETSI to date

WASSERMAN, CS
0578 38 Chemistry and biological hazard of a coal-ash seepage stream

WASSERSTROM, DH
0580 7 Water pollution control in the Exxon donor solvent coal liquefaction process

WASSON, GE
0280 164 Process for making metallurgical coke
0380 86 Method and apparatus for producing hardened carbonaceous agglomerates
1081 85 Process for making metallurgical coke using fluidizer char

WASSON, JA
0180 260 A successful eastern in situ coal gasification field trail
0181 68 Eastern in situ coal gasification field trial

WATANABE, J
0180 313 A feasibility study of manufacturing ultra-large pressure vessels for coal conversion application

WATERLAND, GD
1181 16 Alcohols: The old new fuels

WATERLAND, LR
0580 123 Process evaluation and environmental assessment of coal-fired utility boiler No//x control technologies
0580 145 Environmental assessment of utility boiler combustion modification NO//x coals: Volume 1. Technical Results
0580 149 Environmental assessment field testing: Effects of NO//x controls applied to a tangential coal-fired utility boiler
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

WATERMAN, JJ
0281 28 Coal hydrogenation and hydrocracking using a metal chloride-gaseous HCl catalyst system

WATERMAN, WW
0173 12 Symposium papers, Clean fuels from coal

WATERS, MD
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

WATERS, PL
0675 0 Fluidized-bed combustion of low grade fuels
0679 83 Fluidised combustion of coal washery waste

WATERS, WG
0879 16 Model for evaluating alternate routes for exporting bulk commodities from an inland location to overseas markets

WATKINSON, AP
0180 16 Coal gasification in a spouted bed
0181 104 Gasification of coal in a spouted bed
0181 138 Spouted bed gasification of Western Canadian coals
0182 4 Fluidized-bed gasification of some Western Canadian coals
0182 109 Comparison of coal gasification in fluidized and spouted beds

0582 24 Anodic oxidation of phenolics found in coal conversion effluents

WATSON, N
0479 120 High-speed manriding trains

WATSON, CC
0662 0 Mass transfer in a catalyst pellet during regeneration

WATSON, DG
0181 223 Technology and use of lignite, Vol. 1 and 2

WATSON, GH
0180 135 Methanation catalysts

WATSON, NC
1079 57 Determination of carbon and hydrogen in liquid fuels

WATSON, WB
0173 6 The Feasibility, Economics, and Viability of coal gasification
0177 154 The manufacture of SNG from coal

WATSON, WI
0173 12 Symposium papers, Clean fuels from coal

WATT, JC
0581 43 Converting coal creates contaminants

WATT, RG
0477 30 Transport of men and materials: The problems - some solutions and new concepts.
0879 21 Mining transport - short and long term considerations

WATTERS, JC
0280 74 Autoclave hydrogenation of Kentucy coals
0680 77 AFBC pneumatic splitter feeder system

WATTERS, KL
0280 196 Studies of tricobalt enneacarbonyl clusters on oxide supports

WAY, S
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 119 The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels

WAY, SC
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WAYLAND, RG
0177 275 Coal conversion: Practical and legal implications
0179 114 Resource and development potential maps of federal coal

WEAKLY, LA
0478 28 Area illumination in room and pillar hard rock mines

WEATHERMAN, DF
0476 22 Sixth Symposium on Coal Mine Drainage Research
0581 14 Inhibition of acid mine drainage formation: The role of insoluble iron compounds

WEAVER, BS

0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

WEAVER, EP
0179 349 Design of refractories for coal gasification and combustion systems - Final Report

WEAVER, JD
0276 1 Seismically-induced Load Structures in the Basal Coal Measures, South Wales

WEAVER, KN
0476 7 Coal reserves in Maryland - Potential for future development

WEAVER, RD
0181 122 Electrolyte management for the coal air fuel cell

WEBB, DK
0777 22 Geology and mineral resources of Washington-County, Ohio

WEBB, PF
0479 187 The effects of long-term coal supply contracts on technology adoption and improvements in the mining of coal, final technical report

WEBB, RL
0677 183 Packaged industrial coal-fired fluidized-bed boiler concept analysis

WEBBER, DK
0579 86 Coal conversion control technology, Volume 1. Environmental regulations liquid effluents

WEBER, C
0279 122 Critical instrumentation for the H-coal unit

WEBER, E
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

WEBER, W
0281 291 Filtering coal liquids: Clogging phenomena in the filtration of liquefied coal

WEBER, CM
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

WEBER, DS
0180 288 Control strategy for gasification combined-cycle power plants

WEBER, JH
1078 70 A tabular method for obtaining empirical formulas from high resolution mass spectral data

WEBER, KH
0479 112 Electrical equipment of a new shearer loader

WEBER, WH
0277 42 Solvent-Refined-Coal (SRC) process operation of Solvent Refined Coal Pilot Plant at Wilsonville, Alabama, Annual report, January - December 1976
0278 119 Solvent-refined-coal (SRC) process: Operation of solvent-refined-coal pilot-plant at Wilsonville, Alabama,

Annual report, January - December 1977

WEBSTER, DS
1079 29 Plasticity of coal studied with nuclear-magnetic-resonance
1081 37 H nuclear spin-lattice relaxation in coal during heating
1082 9 Effect of thermal treatment on the interaction of brown coal and water: a nuclear magnetic resonance study

WECHSLER, I
1079 18 Separation of dry crushed coals by high-gradient magnetic separation

WECHTER, MA
1078 13 Determination of sulfur and moisture in coal using capture gamma-rays

WEEKES, P
0479 180 The South-Wales coalfield

WEEKMAN, VW
0274 13 Laboratory reactors and their limitations

WEEKS, AP
0177 275 Coal conversion: Practical and legal implications

WEEKS, KD
0681 213 Characterization of coal-fired indirectly heated gas turbines for cogeneration applications

WEEKS, NE
0673 22 Fluidized-bed oil gasification for clean power generation - Atmospheric and pressurized operation

WEEKS, RA
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WEGE, WK
1076 28 Chemical analyses of selected Missouri-coals and some statistical implications

WEGERT, C
0876 7 Experiences in transportation of dried low-rank western coals

WEGRZYK, Z
0479 222 Coal mining in Poland: methods, production and development

WEHR, AG
0677 248 Testing and evaluation of MHD materials and sub-structures. Annual technical progress report, July 1976 - June 1977

WEHRY, EL
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0580 85 Resistance to photochemical decomposition of polycyclic aromatic hydrocarbons vapor-adsorbed on coal fly ash
0581 46 Nonphotochemical decomposition of fluorene vapor-adsorbed on coal fly ash
1080 7 Oxidative transformations of polycyclic aromatic hydrocarbons absorbed on coal fly ash
1081 104 Matrix isolation Fourier transform infrared spectrometric detection in the open tubular column gas chromatography of polycyclic aromatic hydrocarbons
1081 184 Characterization of coal-derived materials by matrix isolation spectroscopy
1082 75 Analysis of polycyclic aromatic compounds containing nitrogen and oxygen by matrix isolation fourier transform infrared spectroscopy

WEI, J
0177 131 Modeling and analysis of moving-bed coal gasifiers, Volume 1

0178 120 Modeling and analysis of moving-bed coal gasifiers, Volume 2
0178 314 Model for moving-bed coal gasification reactors
0179 28 Parameter sensitivity and kinetics-free modeling of moving-bed coal gasifiers
0179 41 Stoichiometric analysis of coal gasification
0179 42 Feasible operating regions for moving-bed coal gasification reactors
0179 151 A single coal particle gasification model
0179 224 Transient behavior of moving-bed coal gasification reactors
0181 71 Stoichiometric analysis of synthetic fuels and chemicals from coal
0181 134 The effect of homogeneous gas phase oxidations in char particle gasification
0281 13 Stoichiometric analysis of synthetic fuels and chemicals from coal

WEI, CK
0380 34 Oxydesulfurization of coal treated with methyl iodide - implications for removal of organic-sulfur

WEI, GC
0678 74 Effects of alternate fuels. Report No. 2. Analysis of basic refractories degraded by residual oil combustion products

WEI, IW
0179 60 Conceptual designs for water treatment in demonstration plants, I. Plant designs
0179 61 Conceptual designs for water treatment in demonstration plants, II. Appendix - Design procedures

WEI, LY
0171 8 Simultaneous nonisothermal noncatalytic solid-gas reactions
0270 5 Simultaneous noncatalytic solid-fluid reactions

WEI, RP
0177 268 Fracture mechanics and surface chemistry studies of steels for coal gasification systems
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 215 Fracture mechanics and surface chemistry studies of steels for coal gasification systems

WEI, VT
0174 12 Coal processing technology

WEIBLE, H
0678 240 Power generation costs in coal-fired and in nuclear power plants

WEIDERHORN, SM
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

WEIDLICH, HG
0677 26 Experience gained in the use of low-calorific-value raw-lignite for power generation in the GDR

WEIDMANN, E
1078 54 The preparation of polished sections and the structure of natural coal
1079 113 Preparation of microsections and the structure of synthetic coal

WEIGOLD, H
0275 26 Coal hydrogenation using throw-away catalysts
0280 16 Continuous hydrogenation of Yallourn brown-coal tar

WEIL, KH
0174 10 Hydrogen as a fuel, Semi-annual Technical Report

WEIL, SA
0180 272 Thermodynamic analysis of coal gasification processes

WEILAND, RH
0676 31 Fluidization technology, volume 1

WEIMER, AW
0181 39 Modeling a low pressure steam-oxygen fluidized bed coal gasifying reactor
0181 163 The influence of jetting-emulsion mass and heat interchange in a fluidized bed coal gasifier

WEIMER, RF
0179 154 Ambient-pressure thermogravimetric characterization of four different coals and their chars
0179 304 Rates of light gas production by devolatilization of coals and lignite
0281 196 Experimental support for coal reactor design for the SRC-I demonstration plant

WEINBERG, VA
0282 37 Mesophase formation in coal-derived liquid asphaltene

WEINBERG, VL
0280 27 Solubility parameters in coal and coal liquefaction products
0281 253 Fourier transform infrared and solid state carbon-13 nuclear magnetic resonance spectroscopic analyses of pyrolysed coal liquid asphaltene

WEINBERGER, AJ
0680 126 Some etching studies of the microstructure and composition of large aluminosilicate particles in fly-ash from coal-burning power-plants
0680 241 Chemical species in fly ash from coal-burning power plants

WEINBERGER, CB
0182 42 A simple capacitance sensor for void fraction measurement in two-phase flow

WEINBERGER, DT
0178 225 Effect of reduction temperature, carbiding and sulfur-poisoning on the methanation activity of Raney-nickel

WEINER, SC
0282 51 Research and development support for a solvent refined coal demonstration plant - an overview
0678 22 Solids mixing and fluidization characteristics in a tube filled bed
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

WEINGARTNER, DH
0476 21 Fourth Symposium on surface-mining and reclamation

WEINHOLD, JF
0180 78 Coal Technology '80

WEINTRAUB, M
0274 3 Synthoil process for converting coal to nonpolluting fuel-oil
0276 47 Filterability of a coal-derived liquid
0278 158 Processing of centrifuged solids from liquefied coal
0280 221 Centrifugation of coal-derived liquids
0679 31 Dry-cleaning coal in a fluidized-bed medium - Report of Investigations

WEINZIERL, K

0177 42 VEW Coal conversion process - initial test results from the 1 ton/hr pilot plant
0178 89 Symposium on Coal Refining, Proceedings

WEIR, A
0180 73 Cool water coal gasification program
0374 0 Coal utilization symposium - Focus on SO//2 emission control

WEISBRODT, I
0179 267 Coal gasification with heat from high temperature reactors

WEISE, H
0181 223 Technology and use of lignite, Vol. 1 and 2
0476 30 Symposium for Continuous Mining in Open Pit Mines Planning and Facilities of storage yards coal preparation and gasification

WEISS, AH
0179 342 Catalytic hydrogenation of Turkish lignites to oxygen free oil and gas
0281 259 Kinetics and mechanisms of catalytic hydroliquefaction and hydrogasification of lignite, Final Technical Report
0282 152 Catalytic hydroliquefaction of North Dakota lignite. Part I. Effects of process variables on product distribution
0282 153 Catalytic hydroliquefaction of North Dakota lignite Part II. Kinetics of dissolution

WEISS, AJ
0178 77 Synthane - A process for the gasification of caking and noncaking coals
0178 172 Synthane process ready for scale up

WEISS, CA
0679 15 Combustion of single coal particles in a jet

WEISS, CS
0280 355 Solvent refined coal (SRC) process: trace elements, Volume 3 Pilot Plant development work. Part 6 - The fate of trace elements in the SRC Process
0281 356 Chemistry of trace element species in coal liquefaction processes

WEISS, LH
0177 65 Costs for sulfur dioxide emissions control strategies updated

WEISS, MJ
0276 47 Filterability of a coal-derived liquid

WEISS, ML
0280 221 Centrifugation of coal-derived liquids

WEISSMAN, W
0175 51 Integrated coking and gasification process

WEISSMAN, SH
0182 58 Lipid-soluble metal compounds in a coal gasifier process stream
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

WEISZ, PB
0176 77 Utilization of low-Btu natural-gas
0178 73 Novel technology for conversion of methanol and synthesis-gas to hydrocarbons

WELCH, NE

0675 11 Annual report on the MHD high performance demonstration experiment, Nov. 1973 - April 1975

WELLBORN, SG
0179 92 Low and medium-BTU gasification - A chemical industry perspective

WELLBORN, TA
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

WELLEK, RM
0681 10 The USDOE'S advanced coal combustion research program

WELLER, M
1081 168 Internal friction in coal

WELLER, S
0250 0 Mechanism of coal hydrogenation

WELLER, AE
0677 24 Fluidized-bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi-solids fluidized-bed combustion process
0677 197 Battelle's multi-solid fluidized-bed combustion (MS-FBC) process

WELLER, MG
0480 93 Failure of electrical insulation by tracking

WELLER, SW
0276 21 Batch-autoclave studies of catalytic hydrodesulfurization of coal
0277 17 Stannous chloride and cobalt molybdate-alumina catalysts in hydrogenolysis of solvent refined coal
0278 122 Catalytic hydrodesulfurization and liquefaction of coal. Batch autoclave studies
0278 213 Stannous chloride and cobalt molybdate-alumina catalysts in hydrogenolysis of solvent refined coal
0281 42 Effects of pore diameter and catalyst loading in hydroliquefaction of coal with CoO/MoO//3/Al//2O//3 catalysts
1079 124 Catalysis of hydrogen transfer in a tetralin-coal system
1079 128 Catalytic hydrotreating of 1-methylnaphthalene as a screening test

WELLMAN, P
0172 10 The importance of temperature approach in heat exchangers
0180 78 Coal Technology '80
0281 148 The H-coal technology progress toward commercialization
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979
1177 44 Symposium on coal dilemma: How and where to use it

WELLMAN, T
0476 23 Second Symposium on Underground Mining

WELLMAN, DL
0681 173 Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM
0681 175 Environmental effects of pollutants from coal combustion: 2. The Colstrip, Montana, Power Plant

WELLMAN, RC
0178 335 Operation and performance of a Wellman-Galusha gas producer

WELLMAN, TS
0479 105 Case for conventional mining
0481 133 Deep cut remote control mining

WELLS, AW

1081 137 Solid and gaseous fuels

WELLS, CW
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland

WELLS, JW
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

WELLS, TG
0677 189 Conceptual design of an atmospheric fluidized-bed direct-combustion power generating plant

WELLS, WH
0482 58 Developments in diesel emissions control

WELMER, RF
0280 153 Gas holdup in gas-liquid and gas-liquid-solid flow reactors

WELSH, DJ
1077 53 Preparative GPC study of solvent-refined-coal and its acid-neutral-base components

WELTER, C
0279 223 Fluid bed hydrogenation of agglomerating bituminous coals

WELTER, CR
0680 110 Prevention of defluidization in the treatment of coking carbonaceous solids

WELZ, AW
0476 9 Technical services for mine communications research. Commercially available equipment for coal mine emergency warning systems

WEN, W
0377 17 Electrokinetic behavior and flotation of oxidized coal

WEN, CY
0168 5 Comparison of kinetic and diffusional models for solid-gas reactions
0168 6 Effectiveness factors and instability in solid-gas reactions
0168 7 Noncatalytic heterogeneous solid fluid reaction models
0170 7 Comparison of zone-raction model and unreacted-core shrinking model in solid-gas reaction-I Isothermal analysis
0171 8 Simultaneous nonisothermal noncatalytic solid-gas reactions
0172 0 Optimization of coal gasification processes, Volume 1 - Chapter I through VII
0172 1 Optimization of coal gasification processes, Volume II - Chapter VIII plus Appendices
0173 4 Optimization of coal gasification processes, Research and Development Report No. 66, Interim Report No. 2
0173 7 Comparison of alternate coal gasification processes for pipeline-gas production
0173 30 Production of electricity via coal and coal-char gasification
0173 36 Production of low-Btu-gas involving coal pyrolysis and gasification
0175 4 Research needs in heat transfer for a rational design of fluidized-bed gasifier and combustors
0176 60 The role of the carbon - carbon dioxide reaction in gasification of coal and char
0176 122 An analysis of slow reactions in a porous particle
0176 129 The role of the char-CO//2 reaction in coal gasification
0178 272 Coal processing technology, Volume IV
0178 329 Computer modeling of the MERC fixed-bed gasifier
0179 177 Entrainment coal gasification modeling
0179 236 Coal conversion technology
0179 254 Entrained-bed coal gasification modeling

0180 72 Elutriation and attrition of char from a large fluidized-bed
0180 144 Reactivity correlation for the coal char - CO//2 reaction
0180 156 Thermal and diffusional effects in noncatalytic solid gas reactions
0181 160 Kinetic studies on the reactions involved in the hot gas desulfurization using a regenerable iron oxide sorbent-I. Reduction and sulfidation of iron oxide
0270 5 Simultaneous noncatalytic solid-fluid reactions
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0277 132 Fluidization theories and applications
0278 7 Analysis and Scale-up Consideration of Bituminous Coal Liquefaction Rate Processes
0279 61 Initial stage (short residence time) coal dissolution
0279 188 A model for coal pyrolysis
0281 252 A mathematical model for coal liquefaction in the solvent refined coal process
0474 3 Fifth Symposium on Coal Mine Drainage Research
0676 31 Fluidization technology, volume 1
0676 32 Fluidization technology, volume 2
0678 122 Simulation of fluidized-bed combustors: Part I. Combustion efficiency and temperature profile
0678 123 Simulation of fluidized-bed combustors: Part II. Coal devolatilization and sulfur-oxides retention
0678 139 Fluidization: Application to coal conversion processes
0678 249 Coal conversion reaction engineering
0680 46 A comprehensive model for fluidized bed coal combustors
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0681 16 Devolatilization and combustion of coal in fluidized bed combustors
0682 43 Fluidized bed freeboard phenomena: entrainment and elutriation
1077 106 Reactivity of coal and char. 2. In oxygen - nitrogen atmosphere
1079 20 Reactivity of iron-sulfide in sulfur-dioxide atmosphere

WEN, WY
0180 52 Mechanism of alkali metal catalysis in the gasification of coal, char, or graphite

WENDER, I
0174 19 Clean Energy from Coal - New Developments
0278 42 Exploratory research in coal conversion
1080 194 Model structure for a bituminous coal

WENDT, JO
0578 41 Pollutant control through staged combustion of pulverized coal
0580 60 Fundamental coal combustion mechanisms and pollutant formation in furnaces
0678 162 Time resolution of rapid processes using numerical calculation and inversion of laplace transforms
0679 2 Relative contributions of volatile nitrogen and char nitrogen to NO//x emissions from pulverized coal flames
0679 159 Pollutant control through staged combustion of pulverized coal - final report May-Oct. 1978

WENGLARZ, RA
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WENGROVIUS, J
0280 266 Preparation and characterization of active niobium, tantalum and tungsten metathesis catalysts

WENSHUTONIS, RF
0879 32 Steam engine analysis - final technical report

WENTWORTH, RL
0177 95 Investigation of converting the products of coal gasification to methane by the action of microorganisms, Phase I, Final report, Nov. 1975 - Dec. 1976, Dynatech Report No. 1567

WENTWORTH, TO

0282 133 Producing methanol for fuels

WENZEL, W
0177 67 New equipment of underground coal gasification
0177 256 Proceedings of the third annual underground coal conversion symposium
0182 76 The influence of pressure-swinging on the simulation of underground coal gasification

WEPFER, WJ
0178 265 A thermodynamic-economic analysis of the synthane process. Final report
0180 67 Second-law costing applied to coal gasification

WERNER, E
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WERNER, GJ
0176 70 Coal conversion technology

WERNER, KG
0173 3 Coal Gasification and Liquefaction Technology. Vol. 1, 1964 - 1973

WERT, CA
1081 98 Sulfide crystals in coal
1081 168 Internal friction in coal

WERTH, GC
0174 37 An assessment of United-States energy options for project independence
1172 4 Symposium on energy, resources and the environment, Volume 1

WERTHER, J
0178 12 Scale-up of fluidized-bed reactors
0676 31 Fluidization technology, volume 1

WESCHLER, I
0380 121 Coal preparation using magnetic separation, Volume III

WESLEY, DP
0175 66 Destruction of agglomeration properties of coal
0179 234 A mass and energy balance of a Weiman-Galusha gasifier
0280 90 Recovery of heavy coal-derived liquids by pressure fluid extraction
0680 73 Atmospheric fluidized-bed combustor
0680 74 Carbonate sulfur sorbent studies

WESSELHOFT, RD
0175 50 Catalytic coal gasification
0179 272 Gasifier operation and modeling in the Exxon catalytic coal gasification process
0181 215 Coal gasification in a process development unit
0182 114 Catalytic coal gasification: an emerging technology

WEST, B
1177 44 Symposium on coal dilemma: How and where to use it

WEST, W
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

WEST, AS
0179 59 Evaluation of the Battelle agglomerating ash burner process for the production of medium BTU gas

WEST, ED
0278 124 Development of a calorimeter to determine heats of reaction of hydrogen with coal and coal slurries

WEST, LB
0881 40 Relationships in the siting of power plants, slurry pipelines, unit trains and other energy tranportation

WEST, TW
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar

WESTERSTROM, LW
0475 0 Coal: Bituminous and lignite

WESTHOFF, WJ
0882 33 Powder River pipeline project

WESTMORELAND, JS
0178 189 Second generation integrated coal gasification/combined-cycle power systems

WESTMORELAND, PR
0177 90 Coal processing technology, Volume 3
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 120 A review of supporting research at Oak-Ridge National Laboratory for Underground Coal Conversion
0179 217 Two-dimensional pyrolysis effects during in-situ coal gasification: Preliminary results
0181 209 Pyrolysis and physical properties of coal blocks
0277 48 Supporting Research and Development on separations technology: Final Report
0281 264 Hydrocarbonization Research: Completion report
1080 136 Coal block pyrolysis: Effects of changing surface characteristics

WESTON, S
0479 259 Reclaiming mining lands in Alaska

WESTON, MD
0879 10 Alternatives are studied for moving coal by pipeline

WETH, G
0677 46 Coal fired combined-cycle for electric-power generation
0677 47 Pressurized fluidized-bed pilot plant for production of electric-power using high sulfur coal

WETHERINGTON, JB
1077 92 Chemical characterization, handling and refining of solvent-refined-coal to liquid fuels, Final Report

WETHEROLD, RG
0577 23 Assessment, Selection and Development of procedures for determining the environmental acceptability of Synthetic fuel plants based on coal, Basic report and appendix 1
0577 57 Assessment, selection, and development of procedures for determining the environmental acceptability of synthetic fuel plants based on coal, Appendix 3
0577 78 Assessment, selection, and development of procedures for determining the environmental acceptability of synthetic fuel plants based on coal, Appendix 2

WETT, T
0174 3 SNG plans shift to coal
0180 53 Synfuel's future hinges on capital, cooperation
0180 54 SNG plant due in 1983

WETZEL, R
0180 68 New coal-based ammonia plant for Brazil
0180 186 Status of entrained coal gasification according to Koppers-Totzek and Shell-Koppers

1082 39 Ion chromatographs and columns give better separations

WEVER, DM
0379 126 Preservation of reactor test unit and desulfurization of gob pile samples

WEWERKA, EM
0177 256 Proceedings of the third annual underground coal conversion symposium
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0477 94 Seventh Symposium on Coal Mine Drainage Research
0575 5 Trace element characterization and removal/recovery from coal and coal wastes, July 1 - September 30, 1975
0575 6 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1975
0576 15 Disposal of coal preparation wastes: Environmental considerations
0576 17 Contaminants in coal and coal residues
0576 37 Environmental contamination from trace-elements in coal preparation wastes - A literature review and assessment
0577 24 Environmental pollution by trace-elements in coal preparation wastes
0577 74 Trace-element characterization and removal/recovery from coal and coal wastes
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0578 61 Trace-element characterization of coal wastes - First annual report
0578 119 Trace element characterization and removal/recovery from coal and coal wastes
0579 81 The disposal and reclamation of southwestern coal and uranium wastes
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0579 121 Costs of coal and electric power production-the impact of environmental control technologies for coal-cleaning plants
0580 9 Trace-element contamination of drainage from coal cleaning wastes
0581 40 Environmental control technology for contaminated coal refuse drainage
1078 53 High-temperature carbon-dioxide/oxygen-coal reaction rate experiments
1078 60 Trace-element distributions in several coal conversion processes

WEYER, KU
0580 93 The effects of surface mining of coal on water quality near Grande Cache, Alberta

WHAITE, RH
0481 162 Mine waste disposal technology

WHALEN, MJ
0176 124 Carbon formation in methanators - final report

WHALEN, PJ
0178 89 Symposium on Coal Refining, Proceedings
0480 219 Proceedings: Direction of Coal Research in Eastern Canada
0679 58 Experiences with coal/oil mixture firing of a utility boiler

WHALEY, H
0181 223 Technology and use of lignite, Vol. 1 and 2
0380 6 Coal-oil-mixture research and development in Canada
0680 58 Overview of coal activities at the Canadian combustion research laboratory
0681 70 Coal agglomeration and coal-oil mixture combustion in a utility boiler -Phase III - Final Report
0682 11 The combustion properties of western Canadian coals

WHALLEY, BJ
0181 48 A differential thermal probe for anticipation of defluidization of caking coals
0377 79 Coal beneficiation
0676 32 Fluidization technology, volume 2
0879 26 Review of the effects of corrosion inhibitors in coal-water slurry pipelines
0880 31 Effect of pipeline corrosion inhibitors on the caking poperties of metallurgical coals
1079 47 Instrumental anticipation of defluidization of heated beds of caking coal 1 (Part II)

WHAM, RM
0180 78 Coal Technology '80
0281 265 Liquefaction technology assessment - Phase 1: Indirect liquefaction of coal to methanol and gasoline using available technology
0281 329 Technical and economic evaluation of selected coal liquefaction processes. Phase 0. Preliminary screening evaluations
0281 332 The impact of environmental control costs on an indirect coal liquefaction process
0581 7 Potential costs of complying with emission regulations for an indirect coal liquefaction process

WHATLEY, ME
0178 202 A review of information relevant to tube corrosion in a gas cooled, coal-fired, atmospheric pressure, fluidized-bed furnace

WHEATLEY, PC
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WHEATLEY, TE
0477 142 Thoresby colliery - Entry into the parkgate seam
0482 19 Experience in the Parkgate Seam

WHEATMAN, B
0479 106 Brakelock system with added improvements

WHEELCOCK, TD
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications

WHEELER, A
0480 165 The reconstruction of Shirebrook Colliery

WHEELER, G
0180 188 The U-gas process for chemical manufacture

WHEELER, JA
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WHEELER, RW
0480 212 An industrial hygiene characterization of exposures to diesel emissions in an underground coal mine

WHEELER, WH
0476 21 Fourth Symposium on surface-mining and reclamation

WHEELOCK, BR
0176 112 Gas cleanup systems for application to the MERC stirred/fixed-bed gasifier. Preliminary assessment and process evaluation

WHEELOCK, TD
0175 40 Coal processing by electrofluidics
0178 5 Electrofluid gasification of coal with nuclear energy
0376 3 Second Symposium on Coal Preparation
0377 15 Advanced development of fine coal desulfurization and recovery technology
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky
0377 36 Coal desulfurization, chemical and physical methods
0377 43 A comparison of coal beneficiation methods
0377 51 Desulfurizing coal with alkaline solutions containing dissolved oxygen
0377 59 Desulfurization of coal in a fluidized-bed reactor

0380 11 Status of chemical coal cleaning processes
0380 34 Oxydesulfurization of coal treated with methyl iodide - implications for removal of organic-sulfur
0381 83 Evaluation of the removal of organic sulfur from coal
0381 92 Physical and chemical coal cleaning
0677 57 Decomposition of calcium sulfate in a fluidized-bed with in-situ combustion of coal

WHEWAY, R
0779 50 The clarification of clay suspensions

WHISMAN, ML
1079 22 Stability characteristics of hydrocarbon fuels from alternative sources

WHITACRE, GR
0179 8 Final report on study of heat-transfer through refractory lined gasifier vessel walls

WHITAKER, R
0182 59 Coal to electricity
0278 131 Scaling up coal liquids

WHITAKER, PJ
0481 31 Coal workers' pneumoconiosis and the compensation dilemma

WHITAKER, SH
0780 35 Quality and occurence of coal in southern Saskatchewan, Canada, Volume I, Introduction to data acquisition and to associated computer processable files

WHITBY, KT
1078 75 Aerosol size distributions and aerosol volume formation for a coal-fired power-plant plume
1078 76 Nuclei formation rates in a coal-fired power-plant plume

WHITE, G
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0482 48 Training of front line foremen

WHITE, L
0181 45 Coal-fueled direct reduction

WHITE, N
0278 21 Comparison of results obtained from different types of hydrogenation reactors using anthracene-oil
0278 99 Pilot-plant studies of coal hydrogenation
0681 65 Correlation between light attenuation and particulate concentration of a coal-fired power plant emission
1181 21 Progress towards synthetic fuel production in Australia and New Zealand

WHITE, BH
1079 135 Analysis for sulphur in coal ash

WHITE, CM
0180 306 Separation and identification of sulfur heterocycles in coal-derived products
0276 94 Chromatographic and spectrometric investigation of a light oil produced by the synthoil process
0277 144 Characterization of the heterocyclic compounds in coal liquefaction products. Part I: Nitrogen compounds
0278 108 Combined gas-chromatographic mass-spectrometric analyses of nitrogen bases in light oil from a coal liquefaction product
0282 135 Determination of phenols in a coal liquefaction product by gas chromatography and combined gas chromatography/mass spectrometry
0578 10 Analysis of volatile polar organics in untreated byproduct waters from coal conversion processes
1077 51 Heteroatom species in coal liquefaction products

1080 68 Identification and geochemical significance of some aromatic components of coal

WHITE, DE
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

WHITE, DM
0181 223 Technology and use of lignite, Vol. 1 and 2

WHITE, EW
0275 29 Characterization of mineral matter in coals and coal liquefaction residues, annual report
0277 128 Characterization of mineral matter in coals and coal liquefaction residues. Annual report

WHITE, GA
0174 58 The RMProcess
0181 101 The Avco gasifier in a combined cycle power plant
0280 333 Indirect liquefaction via the Avco coal gasification system

WHITE, GP
0482 91 What to expect from computer models

WHITE, IL
0579 36 Water and energy in the western coal lands
1177 0 Energy from the West: A progress report of a technology assessment of Western energy resource development. Executive summary
1179 43 Energy from the West, impact analysis report, Vol. 1, introduction and summary

WHITE, LG
0177 136 Economic comparison of synthetic-fuels - gasification and liquefaction

WHITE, LR
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

WHITE, PC
0176 68 Coal conversion and utilization, 1976 technical report
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky
0676 28 Fossil Energy Research and Development in ERDA
0677 56 Technology and use of lignite
1076 3 Coal derived petrochemicals
1178 19 Fossil energy research program of the energy research and development administration
1178 20 Fossil-energy program report, July 1975 - October 1976

WHITE, RJ
0276 32 Solids removal and fluid catalytic cracking of a synthetic hydrocarbon stream derived from hydrocarbon-containing solids

WHITE, RK
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

WHITE, RL
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

WHITE, TG
0877 11 Coal transportation study, Final report

WHITE, WA
1080 133 Moessbauer studies of illites and heat-treated illite as related to coal-conversion processes

WHITE, WS
0581 80 Handling of combustion and emission-abatement wastes from coal-fired power plants: Implications for fish and wildlife resources

WHITEFORD, J
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

WHITEHEAD, EV
0681 185 Solid fuel/oil dispersions containing metallo-porphyrins as stabilisers

WHITEHEAD, GL
0679 33 Report on the MHD performance demonstration experiment for the period October 1977 to September 1978

WHITEHEAD, HL
0678 186 Report on the MHD performance demonstration experiment for the period October 1976 to September 1977

WHITEHEAD, JC
0178 224 Coal from under the North-Sea
0279 90 Synfuels, British style: NCB's gas extraction of coal
0281 349 Development of a process for the supercritical gas extraction of coal

WHITEHEAD, KL
0477 95 Third Symposium on Underground Mining

WHITEHURST, DD
0276 44 Short contact time coal liquefaction
0276 76 Isolation of chemicals from processed coals
0276 81 Process for the isolation of chemicals from processed coals
0276 85 Chromatographic fractionation of coal liquids
0277 9 Asphaltols - Keys to Coal Liquefaction
0280 187 Structural changes occurring in coal liquefaction
0281 117 Liquefaction of carbonaceous materials
0281 138 Study of coal conversion in polycondensed aromatic compounds
0281 140 The criticalities of solvent composition in coal liquefaction
0281 171 Liquefaction of acid treated coal
0281 269 The effect of solvent compositions on the liquefaction behavior of western subbituminous coal
0281 305 Desulfurization, demetalation and denitrogenation of coal
0281 342 Fundamental studies in the conversion of coals to fuels of increased hydrogen content, Volume 1: the chemistry and mechanisms of coal conversion to clean fuel - Interim Report
0281 343 Fundamental studies in the conversion of coals to fuels of increased hydrogren content, Volume 2: the chemistry and mechanisms of coal conversion to clean fuel - Appendixes - Interim Report
0282 3 Enhanced coal liquefaction with high boiling solvents
0282 49 The role of the catalyst in single and two-stage coal liquefaction
0282 182 Synergistic effects between light and heavy solvent components during coal liquefaction
1077 35 A primer on the chemistry and constitution of coal

WHITELEY, EL
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90

WHITEMAN, J
0581 1 Hydrologic impacts from potential coal strip mining - Northern Cheyenne Reservation - project summary

WHITEWAY, SG
0682 49 Erosion resistant ceramics for coal utilization

WHITFIELD, GG
0979 10 Basinal analysis of the ecca and lowermost beaufort beds and associated coal, uranium and heavy mineral beach sand occurrences

WHITFILL, DL
1080 79 Determination of chromate ion in drilling mud filtrates

WHITING, LF
0580 95 The formation of chlorodibenzo-p-dioxins by air oxidation and chlorination of bituminous coal

WHITLOCK, WN
0881 47 Coal Technology '81, Vol. 1

WHITMAN, DL
0176 58 An in-situ coal gasification model (forward mode) for feasibility studies and design
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 208 Permeation theory for in-situ coal gasification
0178 393 The permeation theory of underground coal gasification - dissertation
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

WHITMORE, RL
0379 50 Washability of Australian coals

WHITTAKER, D
0581 69 Environmental aspects of developing technology

WHITTAKER, BN
0479 113 Design and stability of pillars in longwall mining
0479 148 Evaluation of the design requirements and performance of gate roadways
0479 172 Longwall mining potential of plains region coal deposits in Western Canada
0479 244 Strength characteristics of rocks associated with opencast coal mining in the U.K.
0479 252 Influence of proximity of longwall mining on strata permeability and ground water

WHITTEMORE, FC
0773 0 How much in reserve? More fuel than meets the eye

WHITTEN, RC
0580 0 Environmental and climatic impact of coal utilization

WHITTLE, CE
1177 47 Net energy analysis of five energy systems

WHITTLE, DP
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

WHITWORTH, K
0478 5 Safety and Health in Mining
0478 200 Adapting mining to the computer age

WIATROK, H
0377 18 Utilization of mineral waste raw materials discarded by coal preparation plants of Comecon-Countries

WIBBERLEY, LJ
0679 111 Mineral matter in coal and the thermal performance of large boilers
0681 76 Fly ash characteristics and radiative heat transfer in pulverized-coal-fired furnaces
0682 0 Alkali-ash reactions and deposit formation in pulverized-coal-fired boilers: the thermodynamic aspects involving silica, sodium, sulphur, and chlorine
0682 1 Alkali-ash reactions and deposit formation in pulverized-coal-fired boilers: experimental aspects of sodium silicate formation and the formation of deposits

WIBORG, T
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

WICHLACZ, PL
0481 148 Microbiology of coal mine drainage treatment

WICKER, GR
0882 57 Laminar transport of Bingham plastic slurries

WICKERSHAM, C
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

WICKSTROM, GH
0281 359 Process for minimizing solids contamination of liquids from coal pyrolysis

WIEBER, PR
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 41 Development of in-situ processes for energy and fuels from coals
0179 83 The role of underground coal conversion in the United-States energy future
0182 92 Fossil Energy's role in synthetic fuels

WIECKOWSKA, J
1078 99 Investigation of some organic Binders

WIECKOWSKI, AB
1082 25 Epr study of molecular phases in coal

WIECZENSKI, DE
0681 118 Combustion of solvent-refined coal in a 100-HP firetube boiler

WIECZOREK-CIUROWA, K
0681 136 Influence of foreign materials upon the thermal decomposition of dolomite, calcite and magnesite. Part III. The effect of the thermal dissociation and sulphation conditions on the capture of sulphur dioxide

WIED, E
0178 89 Symposium on Coal Refining, Proceedings

WIEDERHORN, SM
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

WIELCHOWSKY, CC
0777 9 Frontier areas and exploration techniques - Frontier lignite exploration in the South-Central United-States

WIENER, R
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

WIENER, AJ
0275 14 Issues relative to the development and commercialization of a coal-derived synthetic-liquids industry

WIENER, JG
0580 15 Trace-element inputs from a coal burning power plant to adjacent terrestrial and aquatic environments

WIENKE, CL
0676 40 A review of trace element studies related to coal combustion in the four corners area of New Mexico

WIER, CE
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0377 25 Geological Survey Bulletin, No. 55: Reduction of sulfur in Indiana coal by washability techniques
0476 23 Second Symposium on Underground Mining
0976 0 Coal Exploration

WIESE, HC
0876 3 Production of solid fuel-water slurries

WIESLER, D
1081 19 Compositional studies of coal tar by capillary gas chromatography/mass spectrometry

WIESNER, P
0180 116 Process of scrubbing polyvalent phenols from gas

WIGGINS, EJ
0178 89 Symposium on Coal Refining, Proceedings

WIGGINS, LL
0681 108 Flexibility of scale in large conventional coal-fired power plants

WIGGINS, TJ
1080 142 Fusible surface cladding material

WIGHTMAN, JB
0681 32 Pilot-scale development of a low-NO//x coal-fired tangential system
0681 181 Pilot-scale development of a low-NO//x coal-fired tangential system

WIGHTMAN, JP
0380 4 Wetting of powdered coals by alkanol-water solutions and other liquids
0479 65 Actions of wetting agents on coal dust

WIGMANS, T
0181 254 Catalyst structure and mechanism in carbon gasification reactions: influence of preparation of the Ni and K catalysed hydrogenative and steam gasification

WIGTON, HF
0677 114 Corrosion of superalloys, inconels, and stainless-steels by the products from fluidized-bed coal combustion
0678 157 Granular-bed filter development program. Final report

WIJATNO, H
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar

WILBRAHAM, KJ
0681 62 COLLOIL manufacture and application

WILCOX, GA
0181 223 Technology and use of lignite, Vol. 1 and 2

WILCOX, JR
0281 309 Catalytic cracking for the production of transportation fuels from syncrudes

WILCOX, WA
0380 79 Hydrogenation process for solid carbonaceous materials
1077 47 Homogeneous catalytic hydrogenations of complex carbonaceous substrates

WILCOX, WR
1078 62 Particle chromatographic separation of coal fly-ash

WILD, G
0580 40 Petrographic analysis of Kentucky coals

WILDEMAN, TR
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum

WILDER, DG
0182 89 Examination of UCG cavities for the large block test, Centralia, Washington

WILDMAN, DJ
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WILDMAN, RB
0477 106 Surface water quality associated with the surface mining of Iowa coal

WILEMON, G
0180 183 Evidence indicating metal clusters are catalysts in organic reactions

WILEMSKI, G
0178 266 Modeling of coal gasification for fuel-cell utilization. Final report, May 1976 - June 1978

WILES, C
0678 69 Operation of the stoker boilers firing coal and refuse at Ames, Iowa

WILES, CT
0379 58 Test installation for studying erosion-corrosion of metals for coal- washing plants.

WILEY, T
0580 58 Laboratory support

WILHOIT, RC
1079 13 Property data available for coal chemicals

WILK, AS
0278 134 Comparison of coal liquefaction processes, Final Report on Task 006

WILKERSON, JM
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WILKES, DJ
0577 36 Animals: Bioenvironmental effects

WILKEY, M

0579 5 Land reclamation at abandoned deep coal mine
0579 88 Multidisciplinary approach to reclamation of abandoned refuse sites

WILKEY, ML
1076 27 Coal blending in Illinois

WILKIE, CA
1078 122 The carbon-13 nuclear-magnetic-resonance solid-state spectroscopy of various classes of coals

WILKINS, DE
0179 353 Analysis of the dynamic response of process gas H//2S removal plants
0379 55 Dynamic modeling of hydrogen sulfide clean-up processes

WILKINS, DM
0677 147 Pressurized fluidized-bed combustion, Report No. 43, Annual Report, July 1976 - June 1977

WILKINSON, A
1082 71 Study of the reaction of cokes with KOH under nitrogen

WILKINSON, B
0481 122 Coal seam degasification in Queensland utilising hydraulic fracturing with foam - A case history

WILKINSON, HC.
1081 14 Study of the relation between the phosphorus content of coal and coke
1082 32 Effect of low-volatile additives on the structure and strength of cokes

WILKINSON, JF
0480 134 Peabody becomes profitable again
1182 1 1982: Another year of increased sales

WILKINSON, JM
0681 188 Coal Technology '81, Vol. 3

WILKINSON, WH
0676 20 CDIF combustor instrumented test section. Final report

WILKS, K
0173 47 Catalyzed hydrogasification of coal-chars
0176 8 The catalyzed hydrogen and steam gasification of coal and coal chars

WILL, H
0179 260 Coal conversion via the Rheinbraun HTW process

WILLEY, C
0180 306 Separation and identification of sulfur heterocycles in coal-derived products
0281 3 Determination of sulfur heterocycles in coal liquids and shale oils
0282 59 Effect of process distillation on the distribution of amino polycyclic aromatic hydrocarbons in refined coal-derived liquids

WILLIAMS, A
0282 180 Investigation of the flash pyrolysis of some coals
0681 52 Shock tube studies on the formation of soot from the combustion and pyrolysis of some hydrocarbons
1179 40 Coal study

WILLIAMS, F
0175 7 Experience and plans of Britain in underground coal gasification
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research

Center, Morgantown, West-Virginia, August 1976

WILLIAMS, I
0174 5 Fuel gas plants for the process industries burn coal cleanly, efficiently

WILLIAMS, R
0479 146 The Betws drift mine
0681 80 Non-air polluting, non-pyrolytic upgrading of coal for cleaner and more effective electrical power generation

WILLIAMS, AA
0580 181 Interesting features of a coal dump-ash dam at Kilbarchan colliery

WILLIAMS, CG
0479 28 Development of the Highvale-Mine for thermal power-plants of Calgary Power Ltd

WILLIAMS, DF
0178 121 Gas extraction of a western sub-bituminous coal
0279 68 Supercritical extraction of coal
0478 111 Planning, installation and commissioning of a modern cable belt system
1079 35 Structural analysis of supercritical-gas extracts of coals

WILLIAMS, FL
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0781 33 A new technique for determining the methane content of coal

WILLIAMS, GD
0781 23 Deep coal resources of the interior plains, estimated from petroleum borehole data
0978 2 Computer-assisted National Coal Industry

WILLIAMS, JE
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 127 Superconducting magnetohydrodynamics magnet development program. Phase 1, Annual progress report No. 1

WILLIAMS, JJ
0178 272 Coal processing technology, Volume IV

WILLIAMS, JM
0177 256 Proceedings of the third annual underground coal conversion symposium
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0477 94 Seventh Symposium on Coal Mine Drainage Research
0576 15 Disposal of coal preparation wastes: Environmental considerations
0576 17 Contaminants in coal and coal residues
0576 37 Environmental contamination from trace-elements in coal preparation wastes - A literature review and assessment
0577 24 Environmental pollution by trace-elements in coal preparation wastes
0577 74 Trace-element characterization and removal/recovery from coal and coal wastes
0577 87 Trace element characterization and removal/recovery from coal and coal wastes, October 1-December 31, 1976
0578 61 Trace-element characterization of coal wastes - First annual report
0578 119 Trace element characterization and removal/recovery from coal and coal wastes
0579 114 The assessment of trace element contamination of the drainages from coal cleaning wastes
0579 121 Costs of coal and electric power production-the impact of environmental control technologies for coal-cleaning plants
0580 9 Trace-element contamination of drainage from coal cleaning wastes
0580 133 Trace element characterization and removal from coal and coal wastes
1078 53 High-temperature carbon-dioxide/oxygen-coal reaction rate experiments
1078 60 Trace-element distributions in several coal conversion processes

WILLIAMS, JR
0478 315 Study of underground coal mine waste disposal requirement in the United-States

WILLIAMS, KL
0181 223 Technology and use of lignite, Vol. 1 and 2

WILLIAMS, LO
0180 32 Application of centrifugal separation to the production of hydrogen from coal

WILLIAMS, MC
1079 137 Rheology of very concentrated coal suspensions

WILLIAMS, MD
0176 127 Potential production of photochemical oxidants from coal gasification facilities
0578 60 Elemental deposition downwind of a coal-fired power-plant

WILLIAMS, RB
0276 17 Chemical properties of Synthoil products and feeds, Final Report, Part IV
0276 18 Chemical properties of Synthoil products and feeds, Final Report, Part I
0276 19 Chemical properties of Synthoil products and feeds, Final Report, Part II
0276 22 Chemical properties of Synthoil products and feeds, Final Report, Part V
0276 23 Chemical properties of Synthoil products and feeds, Final Report, Part III

WILLIAMS, RD
0181 223 Technology and use of lignite, Vol. 1 and 2
0281 151 Coal feed flexibility in the Exxon Donor Solvent coal liquefaction process

WILLIAMS, RH
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

WILLIAMS, RJ
1077 16 Study of coal reactivities, Annual Report, June 1976 - May 1977

WILLIAMS, RL
0478 263 Trend towards mechanical drives for open-pit mine haulage trucks

WILLIAMS, RN
0181 260 Coal gasification plants will try welders' skill

WILLIAMS, VE
0779 15 Depositional setting and coal petrology of Tulameen coalfield, South-Central British-Columbia
0780 5 Kaolinite, smectite and k-rectorite in bentonites: relation to coal rank at Tulameen, British-Columbia

WILLIAMS, WA
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WILLIAMS, WR
0277 143 Engineering evaluations of coal conversion processes - Part 1. Hydrocarbonization and synthoil - information base, process selection, and preliminary evaluation of alternatives

WILLIAMSON, A
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

WILLIAMSON, J
0681 79 Slagging in boiler furnaces: an assessment technique based on thermal behaviour of coal minerals
0681 101 A laboratory study of the thermal behaviour of coal minerals

WILLIAMSON, DL
1081 157 Quantitative investigations of pyrite and coal

WILLIAMSON, DR
0776 14 Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90
0777 10 Trend areas and exploration techniques - Occurrence and characteristics of Midway and Wilcox-lignites in Mississippi and Alabama

WILLIAMSON, FA
0582 15 Applications of airshed modelling to utility planning

WILLIAMSON, MM
0477 130 The application of bore core data to coal preparation plant design

WILLIS, C
0478 109 Rocky-mountain-coal seams call for special drilling techniques

WILLIS, D
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia

WILLIS, S
0178 37 Identification of organic constituents in aqueous effluents from energy-related processes.

WILLIS, DM
0680 189 Design and operation of fluidized bed industrial boilers and hot gas producers
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WILLIS, WE
0180 193 Coal gasification/gas cleanup test facility: Volume 1. Description and Operation

WILLIS, WO
0476 21 Fourth Symposium on surface-mining and reclamation

WILLS, NB
0480 175 The evolution of face design in thick seams - Markham Main Colliery

WILLSON, WG
0173 46 Alkali carbonate and nickel catalysis of coal-steam gasification
0181 223 Technology and use of lignite, Vol. 1 and 2
0279 118 Application of liquefaction process to low-rank coals
0280 300 Characterization of light oils from liquefaction of lignite
0282 52 Low-rank coal liquefaction employing H//2S as a homogeneous catalyst
0282 69 The liquefaction behavior of a Canadian subbituminous coal in comparison to that of several U.S. lignites and subbituminous coals

WILMOTH, RC
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0471 0 Limestone treatment of acid-mine-drainage
0474 3 Fifth Symposium on Coal Mine Drainage Research
0476 22 Sixth Symposium on Coal Mine Drainage Research
0477 94 Seventh Symposium on Coal Mine Drainage Research
0478 146 Neutralization options for acid-mine-drainage control
0578 23 Utilization of fly-ash and coal mine refuse as a road base material

WILSON, J
1081 112 Active carbons from coals
1082 51 Active carbon agglomerates

WILSON, K
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

WILSON, M
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems
1078 133 Thermionic-emission properties of some synthetic-coal-slags

WILSON, W
0580 112 Activities, effects and impacts of the coal fuel cycle for a 1,000-MWe electric power generating plant. Final Report

WILSON, AH
0478 175 Various aspects of longwall roof support

WILSON, AL
0178 98 Vertical-lift-dryer pilot-plant design, Final Report, Appendix
0178 103 Vertical-lift-dryer pilot-plant design, Final Report
0377 77 Mechanical development recommendations. Interim report

WILSON, BA
0177 256 Proceedings of the third annual underground coal conversion symposium

WILSON, BW
0281 228 In-vitro assay for mutagenic activity and gas chromatographic-mass spectral analysis of coal liquefaction material and the products resulting from its hydrogenation
0282 27 Selective detection of amino polycyclic aromatic compounds in solvent refined coal
0282 59 Effect of process distillation on the distribution of amino polycyclic aromatic hydrocarbons in refined coal-derived liquids

WILSON, CL
0180 78 Coal Technology '80
1180 35 World coal study. Coal - bridge to the future
1180 43 Future coal prospects: country and regional assessments - World Coal Study
1181 39 Overview of the world coal study

WILSON, CR
0580 28 Alpha-emitters in the environment, II. Man-made activity

WILSON, DB
0281 210 Hydrotreating SASOL coal liquids

WILSON, DC
0377 44 Dry table - pyrite removal from coal

WILSON, EL
0177 90 Coal processing technology, Volume 3
0280 137 Hydrogen-donor coal liquefaction process

WILSON, EM
1178 24 Perspectives on energy: Issues, ideas, and environmental dilemmas

WILSON, FT
0177 221 Development of a fast fluid-bed gasifier. Phase 1-Tasks 1 and 2. Annual report, July 1976 - June 1977
0477 95 Third Symposium on Underground Mining

WILSON, GD
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
1078 129 Comparative characterization and hydro-treating response of coal, shale, and petroleum liquids

WILSON, GM
0178 272 Coal processing technology, Volume IV
0281 16 Volatility of coal liquids at high temperatures and pressures
0281 194 Selected physical, chemical and thermodynamic properties of narrow boiling range coal liquids
0282 19 Density, viscosity, and surface tension of coal liquids at high temperatures and pressures

WILSON, HW
0178 381 Experimental studies on the land disposal of coal gasification residues
0580 166 Land disposal of coal gasification residue

WILSON, JH
0281 193 Experimental support for coal conversion demonstration projects at the Oak Ridge National Laboratory: preheater rheology, slurry mixing, and vacuum bottoms viscosity

WILSON, JS
0677 36 Fluidized-bed combustion of anthracite refuse
0677 51 Factors influencing formation of alkali sulfates in fossil-fuel combustion
0677 152 Design status of an atmospheric pressure fluidized-bed combustion/component test and integration unit
1077 89 X-ray diffraction examination of coal combustion products related to boiler tube fouling and slagging

WILSON, JW
0679 122 Preparing new source review applications for coal-fired power-plants

WILSON, KB
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

WILSON, KC
0880 21 New techniques for the scale-up of pilot-plant results to coal slurry pipelines

WILSON, LR
1052 2 Second Conference on the origin and constitution of coal

WILSON, MA
0280 227 H n.m.r. study of tars from flash pyrolysis of three Australian coals
0280 242 Influence of pyrolysis temperature on the aromatic fraction of flash pyrolysis tars
0280 248 The nature of tars produced by the flash pyrolysis of coals
0281 87 Aromatic and aliphatic composition of the solid and liquid products from hydrogenation of Liddell coal
0281 227 Deuterium as a tracer in coal liquefaction
0282 30 Surface changes in coal hydrogenation autoclaves that affect autoclave reactions
0282 32 Effect of temperature, catalyst and charge gas on the mean chemical structures of the products from hydrogenation of Liddell coal
0282 136 Hydrogenation of Liddell vitrinite: effects of metal halide catalysts in the temperature range 200-480-deg-C
0282 163 Changes in aromaticity during coal liquefaction
1080 46 Proton NMR study of tars from flash pyrolysis of three Australian coals

WILSON, ML
0579 87 An integrated assessment of Texas lignite development, Volume I. Techanical analyses

WILSON, MW
0178 293 Development and operation of METC 42-inch gas producer during 1964 - 1977

WILSON, RG
0976 0 Coal Exploration

WILSON, RL
0779 36 Evaluation of the coal reserves in the Whitwell Shale in the Southern Cumberland plateau in Tennessee - final report

WILSON, RW
0180 183 Evidence indicating metal clusters are catalysts in organic reactions

WILSON, ST
0380 101 Oxidative coal desulfurization using lime to regenerate alkali metal hydroxide from reaction product
0380 102 Mild oxidative coal desulfurization

WILSON, TC
0377 33 Third Symposium on Coal Preparation, October 18 - 20, 1977, Louisville, Ketucky

WILSON, TP
0178 101 Synthesis-gas conversion over supported rhodium and rhodium-iron catalysts
0281 18 The state of manganese promoter in rhodium-silica gel catalysts

WILSON, WI
0279 29 Description, calibration, and preliminary testing of the coal liquefaction heat-transfer coefficient measurement test unit
0680 6 Use of oil-shale for SO//2 emission-control in atmospheric-pressure fluidized-bed coal combustors
0680 237 Sorbent utilization prediction methodology: sulfur control in fluidized-bed combustors

WILSON, WL
0780 23 Stratigraphy and coal resources of Dakota sandstone in Sage Plain, Southwest Colorado and Southeast Utah

WILSON, WR
0677 1 Synthetic Sulfur Dioxide Sorbents for Fluidized-Bed Coal Combustors

WILSON, WIS
0478 38 Exploitation of the in-seam miner and operational experience

WILTSEE, GA
0181 223 Technology and use of lignite, Vol. 1 and 2
1180 36 Western low rank coal development analysis

WINANS, RE
0279 196 Characterization of hydrolytically solubilized coal
1077 40 Oxidative degradation studies of coal and solvent-refined-coal
1078 57 Trapped organic compounds and aromatic units in coals
1078 121 Characterization of organic acids trapped in coals
1079 104 Lignin-like polymers in coals
1080 17 Characterization of a complex mixture of aromatic and heterocyclic acids obtained from oxidation of lignite coal and its solvent-refined products
1080 73 Treatment of Green River oil-shale by carbon-dioxide: evidence for association of bitumen and carbonate materials
1080 118 Characterization of heteroaromatics in coals and coal products
1081 26 Investigation of aqueous sodium dichromate oxidation for coal structural studies
1081 27 Is kerogen-like material present in coal? 1. Buffer-controlled permanganate oxidation of coal
1081 28 Is kerogen-like material present in coal? 2. Chromic acid oxidation of coal and kerogen

1081 171 Structural characterization of coal: Lignin-like polymers in coals

WINCHESTER, JW
0581 16 Pixe analysis of time-sequence 'streaker' filters from Johannesburg

WIND, RA
1082 15 Proton dynamic polarization and proton-carbon cross-polarization in coal

WINDAWI, H
0280 202 Regeneration of metallic catalysts

WINDER, CG
0781 10 Distributions of trace elements in Western Canadian coal ashes

WINEGAR, PM
0681 188 Coal Technology '81, Vol. 3

WINEGARTNER, EC
0680 60 Laboratory combustibility testing of solid fuel

WINER, AA
0377 35 Third Kentucky Coal Refuse Disposal and Utilization Seminar
0778 18 Extraction of alumina from Canadian non-bauxite materials
1078 135 Coal associated materials as potential non-Bauxite sources of Alumina

WINGELETH, D
0881 47 Coal Technology '81, Vol. 1

WINKLER, J
0376 7 Desulfurization of coal-oil mixtures by attrition grinding with activated iron powder

WINKLER, P
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

WINSCHEL, RA
0279 9 Liquid column fractionation: a method of solvent-fractionation of coal liquefaction and petroleum products
0280 223 Development of a correlation between slurry oil composition and process performance, Topical report 1: analysis of slurry recyle oils from H-coal PDU run 5
0280 257 Development of a correlation between slurry oil composition and process performance. Topical Report 2. Analyses of slurry recycle oils from H-coal PDU run 8
0281 103 Composition and performance of distillate recycle solvents from the SRC-I process
0282 45 Solvent quality effects in SRC-I, H-Coal and lummus two stage liquefaction

WINSHIP, RD
0480 219 Proceedings: Direction of Coal Research in Eastern Canada
0677 251 Steam generation with western-Canadian coals

WINSLOW, JC
0278 75 Upgrading of solvent-refined-coal

WINSOR, L
0180 78 Coal Technology '80
0181 100 Technical considerations in switching to gas derived from coal in utility boilers

WINTER, O
0173 12 Symposium papers, Clean fuels from coal

WINTER, BL
0180 130 Recovering hydrocarbons from hydrocarbon-containing vapors

WINTERS, RM
1079 45 On the kinetics of coal oxidation

WINTRELL, R
0173 12 Symposium papers, Clean fuels from coal
0174 15 Economics of the Koppers-Totzek Process
0178 406 Gasification of COED chars in a Koppers-Totzek gasifier

WIRAM, VP
0474 3 Fifth Symposium on Coal Mine Drainage Research
0477 92 Fifth Symposium on Surface-mining and reclamation
0578 7 Need for selective placement of overburden and equipment considerations

WIRTHLIN, T
1079 63 Pyridine extracts of solid fuels

WISCH, JC
0579 96 Erosion and sediment control - an operational approach at the centralia coal mine

WISDOM, LI
0281 352 Hydrotreatment of COGAS pyrolysis oil via the H-oil process

WISE, H
0178 133 Carburization studies of iron Fischer-Tropsch catalysts
0180 305 Shift conversion and methanation in coal gasification: bench-scale evaluation of a sulfur-resistant catalyst - Final report

WISE, BA
0178 205 Development of coal piston feeder, Phase-1, Final Report

WISE, DL
0177 95 Investigation of converting the products of coal gasification to methane by the action of microorganisms, Phase I, Final report, Nov. 1975 - Dec. 1976, Dynatech Report No. 1567
0278 98 Engineering analysis of in-situ liquefaction of coal

WISE, JJ
0176 114 Development studies on conversion of methanol and related oxygenates to gasoline, final report
0178 73 Novel technology for conversion of methanol and synthesis-gas to hydrocarbons

WISE, SA
1081 97 Selective quenchofluorometric detection of fluoranthenic polycyclic aromatic hydrocarbons in high-performance liquid chromatography

WISECARVER, DO
0477 95 Third Symposium on Underground Mining

WISECARVER, DW
0477 101 Proceedings of the Rocky-Mountain Coal Mining Institute

WISEMAN, T
0478 244 Hitting pay-dirt with pine seeds: strip mines reforested

WISER, WH
0178 163 Equilibrium thermodynamic correlations in coal hydrogenation to pipeline-gas

0181 223 Technology and use of lignite, Vol. 1 and 2
0278 16 Residence-time measurements in a coal hydrogenation process
0278 228 Chemistry of coal liquefaction: status and requirements
0279 76 Structural characterization of coal-hydrogenation products by proton and carbon-13 nuclear-magnetic-resonance
0279 132 Applied research and evaluation of process concepts for liquefaction and gasification of western coals
0279 197 Chemical characterization of a hvb coal
0280 29 Kinetics of coal liquefaction: Effect of catalyst, hydrogen concentration
0280 175 Mechanism of coal hydrogenation-liquefaction: Effect of temperature and coal particle size
0282 2 Implications on coal pyrolysis chemistry from model compound studies
1078 42 An infrared-absorption study of coal-metal salt catalyst interactions
1079 126 The thermodynamics of anthracene hydrocracking
1080 76 A kinetic comparison of coal pyrolysis and coal dissolution

WISMAN, R
0180 207 Centrifugal pump for powder and a process and apparatus for the gasification of coal powder

WISNIEWSKI, EJ
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report

WISS, JF
0482 12 Vibration and air blast noise from surface coal mine blasting

WITCOFSKI, RD
0177 108 Alternate aircraft fuels prospects and operational implications

WITHERS, HW
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 96 Tennessee valley authority's atmospheric fluidized bed combustion projects

WITHERS, JG
0280 338 Tube-side heat transfer and pressure drop for tubes having helical internal ridging with turbulent/transitional flow of single-phase fluid. Part 2. Multiple-Helix ridging

WITHERSPOON, JP
0577 53 Radiological impact of airborne effluents of coal-fired and nuclear power plants

WITHROW, J
0179 234 A mass and energy balance of a Wellman-Galusha gasifier

WITKOWSKI, AR
0680 66 The temperature of coke particles in a fluidised combustor

WITKOWSKI, SJ
0577 25 Fourth Symposium on Coal Utilization, October 18 - 20, 1977, Louisville, Kentucky

WITMER, FE
0580 62 Environmental concerns for coal synfuel commercialization

WITT, RH
0178 272 Coal processing technology, Volume IV

WITTHOEFT, C
0681 86 The petrochemistry of coal ash slags. Part 3. Behaviour of the rosebud slag-limestone system

WITTLE, CE

0677 257 Energy requirements for fluidized-bed coal combustion in 800-1,000 MW steam electric power plants

WITTMANN, Z
1081 76 Determination of mercury of atomic-absorption spectrophotometry

WITTMANN, RC
0478 308 Analytical bases for eletromagnetic sensing of coal properties - final report

WITZ, JR
0180 78 Coal Technology '80
0580 91 Development of a cost comparison model for various coal desulfuriztion options - dissertation

WIXSON, BG
0578 93 Coal, water, trace-elements and mortality
1077 18 Control of trace-elements during the increasing development of coal for energy

WOBBER, FJ
0374 3 First Symposium on Mine and Preparation plant refuse disposal
0476 23 Second Symposium on Underground Mining

WOCASEK, FR
0677 44 The solid-fuel gas-turbine for industrial energy production

WOCHOK, ZS
0579 95 Cloning - a prescription approach to revegetation

WOEBCKE, HN
0173 12 Symposium papers, Clean fuels from coal
0173 48 Thermal hydrogasification of aromatic compounds
0177 90 Coal processing technology, Volume 3
0177 140 Status of selected coal conversion technologies
0178 272 Coal processing technology, Volume IV

WOELFEL, RE
1081 140 A new method for quantitative X-ray analysis of multi-phase mixtures

WOESSNER, WW
0479 22 The impacts of coal strip mining on the hydrogeologic system of the Northern-Great-Plains: Case study of potential impacts on the Northern Cheyenne Reservation
0581 1 Hydrologic impacts from potential coal strip mining - Northern Cheyenne Reservation - project summary

WOHADLO, S
0179 191 Controlling fluidized-bed gasification

WOJCIECHOWSKI, BW
0179 175 Economics of carbon processing
0180 142 Pick a process by design
0280 180 Possibilities for coal liquefaction
0280 181 Process coal using nuclear energy
0480 219 Proceedings: Direction of Coal Research in Eastern Canada

WOJCIK, W
0380 27 The enrichment of fine particles of coal by aggregation. Part 1, Forces of coal grain adhesion to air bubbles
0380 28 The enrichment of fine particles of coal by aggregation, Part 2, The use of the selective aggregation method

WOJDAC, LF
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978

0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980

WOLANSKI, P
0677 72 Numerical analysis of coal dust-air mixture combustion

WOLCOTT, BH
0475 7 Third Symposium on Surface-mining and reclamation, Volume I
0477 92 Fifth Symposium on Surface-mining and reclamation

WOLCOTT, HB
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
1081 86 Handling of solid-laden hydrocarbonaceous bottoms in a retort using solid heat-carriers

WOLF, M
1077 25 Application of fluorescence-microscopy in coal petrology and oil exploration
1081 89 Infrared spectra of humodetrinite from the Fortuna-Garsdorf mine

WOLF, AB
0181 190 An analysis of coal gasification/combined cycle cogeneration power plants

WOLF, AP
1079 60 Oxygen content of selected coals as determined by charged particle activation analysis
1081 183 A study of coal oxidation by charged-particle activation analysis

WOLF, CH
0582 29 Fungus speeds mine reclamation

WOLF, EE
0178 321 Theoretical analysis of non-catalytic gas-solid reactions in a single pellet diffusion reactor
0182 11 Kinetics of the potassium carbonate-catalyzed steam gasification of carbon and coal

WOLF, JC
0280 25 High-temperature turbine for operation on coal-derived fuel

WOLFBRANDT, G
0581 76 Effect of fuel nitrogen and hydrogen content on emissions in hydrocarbon combustion

WOLFE, GJ
1077 88 Determination of sulfur, ash, and trace-element content of coal, coke, and fly-ash using multielement tube-excited x-ray-fluorescence analysis

WOLFE, TC
0179 148 Continuous analyzer system for in-situ coal gasification project

WOLFF, SF
0479 52 Optimization of coal recovery from open pits

WOLFF, TJ
0580 185 Second symposium of the transfer and utilization of particulate control technology: Volume I. Control of emissions from coal fired boilers

WOLFF, WF
0277 70 Dispersion of catalysts with explosives for in-situ mining of carbonaceous minerals

WOLGAMOTT, J
0477 61 Coal mine pillar strength and deformation prediction through laboratory sample testing

WOLK, R
0676 41 Solvent refining for clean coal combustion

WOLK, RH
0173 12 Symposium papers, Clean fuels from coal
0174 12 Coal processing technology
0180 26 Synthetic liquid fuels
0277 30 Conversion of Western United-States-coals to liquid products
0278 41 Coal Liquefaction: Status and New Directions
0278 62 Electric utility fossil-fuels beyond 1985

WOLLENZIEN, T
0780 32 Geology of the Decker coal area

WOLOSIN, S
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

WOLOSIN, SM
0677 117 Materials tests for an indirect air cooled PFBC combined-cycle power-plant
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WOLOWSKI, E
0280 186 Status of German technology on coal hydrogenation development by Ruhrkohle AG and Veba Oel AG
0280 252 The development of catalytic coal hydrogenation by ruhrkohle ag and veba oel ag

WOLSKO, TD
1176 8 A socioeconomic assessment of energy development in a small rural county: coal gasification in Mercer-County, North-Dakota
1177 37 An evaluation of regional trends in power-plant siting and energy transport

WOMELDORFF, PJ
0180 287 Retrofit of oil and gas-fired generating plants - an analysis of alternative strategies

WONG, J
1081 103 X-ray absorption spectroscopic investigation of trace vanadium sites in coal

WONG, BY
0282 77 Coal Research Programs at Gulf Canada Limited, Research & Development Department

WONG, EW
0281 263 Hydrodynamics of coal-liquefaction dissolver configurations

WONG, GS
0277 68 Coal/oil slurry feed pump development
0278 170 Coal slurry feed pump for coal liquefaction. Final report
0279 55 Development of a high-pressure, centrifugal slurry pump

WONG, JL
0280 245 Distribution of aliphatic and aromatic carbons in H-coal liquids by quantitative C FT-n.m.r. spectroscopy
0281 162 Voltammetry and electrolysis of coal slurries and H-Coal liquids
1079 198 Determination of protonated and quaternary carbons in H-coal liquids from quaternary carbon suppressed and nonsuppressed CMR spectra

WONG, RL
0176 3 In-Situ Coal Gasification Flare: Thermal and flow analysis

0177 256 Proceedings of the third annual underground coal conversion symposium

WONG, SH
0178 389 Laboratory support for in situ gasification: Reaction kinetics
0378 9 A study of coal preparation and cleaning - Summary and results
0578 19 Environmental control strategies for coal-fired power plants: A comparative evaluation

WOO, TG
0680 137 Reliability analysis of a fluidized-bed boiler for a coal-fueled power plant

WOOD, A
0180 304 Improvements in or relating to coal gasification plant

WOOD, P
0581 63 Particulate emissions from a pressurized fluidized-bed coal combustor
0680 197 Emissions from a pressurized fluidized bed coal combustor

WOOD, BJ
0180 305 Shift conversion and methanation in coal gasification: bench-scale evaluation of a sulfur-resistant catalyst - Final report

WOOD, CE
0178 88 Coal gasification for industrial use and power

WOOD, DJ
0478 82 Sediment resuspension in slurry pipelines
0881 6 Capsule hoist system for vertical transport of coal and other mineral solids

WOOD, DL
0681 193 The economic value of coal for coal fired power stations

WOOD, FW
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

WOOD, GM
0580 0 Environmental and climatic impact of coal utilization

WOOD, JC
1064 0 The dry oxidation of sub-bituminous coal
1064 2 The reaction of diazonium salts with humic acids and coals: Evidence for activated methylene bridges in coals and humic acids
1067 1 Coal-based fertilizers by oxidative ammoniation of coal
1068 3 Fertilizers from coal

WOOD, LA
0678 3 Energy Management for Furnaces, Kilns, and Ovens NBS Handbook 124

WOOD, LE
1079 176 Evaluation of the use of indirect tensile test results for characterization of asphalt-emulsion-treated bases

WOOD, PA
0480 120 Less-conventional underground coal mining
0481 14 Hydrological problems of surface mining
0482 37 Remote and automatic control of longwall mining

WOOD, PJ
0679 168 Reliability analysis of the Georgetown University atmospheric fluidized bed combustor - final report

WOOD, RE
0278 16 Residence-time measurements in a coal hydrogenation process
0278 89 The effect of coal characteristics on the catalytic liquefaction of Utah coals
0279 109 A survey of methods of coal hydrogenation for the production of liquids
0279 192 Coal hydrogenation char as blending agents for coke production
0280 29 Kinetics of coal liquefaction: Effect of catalyst, hydrogen concentration
0280 175 Mechanism of coal hydrogenation-liquefaction: Effect of temperature and coal particle size
1078 42 An infrared-absorption study of coal-metal salt catalyst interactions

WOOD, RT
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0682 37 The Wellman-Lord SO//2 recovery process

WOOD, SG
0580 102 Sorption properties of sediments and energy-related pollutants

WOODBRIDGE, DD
0580 8 Environmental assessment of the SRC liquefaction process

WOODBURN, ET
0274 14 Thermal decomposition and hydrogenation of coal dust in a shock tube

WOODBURY, FB
0380 37 Application of thermal neutron capture-gamma ray analysis to oxidized taconite beneficiation process slurries

WOODCOCK, K
0182 85 Rationale for domestic synthetic fuel alternatives

WOODCOCK, KE
0178 87 Catalytic coal gasification exploratory research program

WOODHEAD, PM
0579 118 Coal waste artificial reef program, phase 1
0581 29 Coal waste artificial reef program, phase 3, volume 2: comprehensive report
0582 23 Coal waste artifical reef program, phase 4a, - Interim Report

WOODLEY, RM
0177 28 Hat Creek Coal Utilization

WOODLEY, JNL
0479 110 Developments in hard rock tunnelling

WOODMANSEE, DE
0180 46 Gasification of Illinois No. 6 coal in an advanced fixed-bed gasifier
0181 112 Coal gasification process

WOODRIFF, R
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WOODRUFF, GL
0180 140 Neutronics performance of a flowing particle bed for synthetic fuel production in fusion-fission hybrid reactors

WOODS, CM
0279 31 Alloy evaluation for fossil-fuel process plants (Liquefaction). Annual Report, October, 1978 through September, 1979

WOODS, EL
0478 163 Electrical and mechanical system improvement study (continuous miners), Final technical report

WOODS, JM
0176 51 Coal conversion plant computer simulation

WOODS, JT
0477 13 Mining Review, 1976

WOODS, JW
0174 26 Acoustic-array methods for instrumentation of in-situ coal gasification

WOODSON, H
1178 17 National energy policy: A continuing assessment

WOODWARD, C
0174 54 Formulation and operation of methanation catalysts

WOODWARD, PW
0280 218 The composition of liquids from coals of different rank
0281 236 The composition of liquids from coals of different rank

WOODWELL, GM
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

WOODY, MC
1082 1 Structure analysis of coals by resolution enhanced solid state 13C N.M.R. spectroscopy

WOOLF, RL
0579 32 Environmental monitoring for safety in underground coal mining

WOOLSEY, NF
0279 180 The use of acetylation of quantitate acid groups in coal derived liquids
0279 193 Carbon monoxide-water vs. hydrogen for liquefaction: The reduction of diphenylsulfide, thioanisole and dibenzothiophene
0280 238 Carbon monoxide-water vs. hydrogen for liquefaction: the reduction of diphenylsulfide, thioanisole and dibenothiophene
0280 260 Solubility increase of coal-derived liquids by silylation and acetylation: intermolecular hydrogen bonding
0281 97 Quantitative FT 13C N.M.R. of solvent-refined coals using sym-triazine as solvent
0281 301 Chemical modification and separation of preasphaltenes of SRC - Final Report
0282 83 Analytical cleavage of diaryl ethers as models for asphaltene and preasphaltene structures
0282 84 Quantitation of the reductive cleavage of aryl ethers of SRC and coals Semi Annual Report Period: September 1981 - March 1982
0282 189 Use of acetylation and Carbon-14-counting to quantitate hydroxyl groups in preasphaltenes and asphaltenes from coal hydrogenation
0677 56 Technology and use of lignite
1077 54 Comparison of solvent-refined-lignites with solvent-refined bituminous coals
1079 99 Evaluation of solvents for carbon-13 n.m.r. analysis of solvent-refined-coals

WOOTEN, JT
1177 44 Symposium on coal dilemma: How and where to use it

WOOTON, DL

0278 13 Characterization of organic fractions in solvent-refined coal by quantitative N.M.R. Spectroscopy.
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0279 9 Liquid column fractionation: a method of solvent-fractionation of coal liquefaction and petroleum products
1078 126 A 1-H and 13-C nuclear-magnetic-resonance study of the organic constituents in different solvent-refined-coals as a function of the feed coal

WORAM, MG
0178 272 Coal processing technology, Volume IV

WORKMAN, R
0882 31 Slurry transportation overview

WORLEY, AC
0180 105 Gas distributor for fluidized bed coal gasifier

WORMALD, MR
1079 158 A method of measuring the ash content of coal in moving wagons

WORMECK, JJ
0676 39 CREK - A computer program for calculation of combustion reaction equilibrium and kinetics in laminar or turbulent flow

WORMHOUDT, J
0678 232 Computer modeling of the effects of coal-ash chemistry on the performance of MHD-generators
0680 207 Studies of MHD generator performance with oxygen enriched coal combustion

WORMHOUDT, DT
0681 108 Flexibility of scale in large conventional coal-fired power plants

WORMHOUDT, JC
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

WORMSER, A
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia
0681 51 Operation and testing of the Wormser Grate fluidized bed combustor at the USM Corporation facility at Beverly, Massachussetts

WORRELL, W
0179 216 Thermodynamic predictions of the behavior of Fe-Cr-Al alloys in coal gasifier environments

WORSSAM, BC
0477 107 The Hanginghill farm (1970) borehole, south Derbyshire coalfield

WORSTELL, JH
0281 105 Deposit formation in liquid fuels. 1 Effect of coal-derived Lewis bases on storage stability of Jet A turbine fuel

WOYKE, G
0176 105 Catalytic gasification of fossil-fuels with steam
0178 43 Catalytic gasification of coal with high-pressure steam

WOZNIAK, E
0178 272 Coal processing technology, Volume IV
0178 353 Water usage in an integrated coal gasification plant
0577 18 Analysis of water usage for an integrated coal gasification plant

WOZNIAK, J
1077 10 Hydrogen in Coal: The feasibility of determination by neutron methods

WRAGG, JG
0180 44 Plasma-arc coal chemicals

WRAGG, RD
0278 167 Production of gas from coal

WRATHALL, J
0679 190 Coal desulfurization prior to combustion

WRAY, KL
0178 266 Modeling of coal gasification for fuel-cell utilization. Final report, May 1976 - June 1978
0179 36 Coal processing for fuel-cell application. Task report - Task V. Modeling of wet-gas cleanup
0580 193 The second symposium on the transfer and utilization of particulate control technology held at Denver, Colorado on July 23-29, 1979, Volume III. Particulate control devices

WRIGHT, A
0578 29 Water requirements for coal development

WRIGHT, D
0681 13 Fireside corrosion of reheater tubes

WRIGHT, F
0480 73 Rock mechanics of mining longwall

WRIGHT, G
0678 196 Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Final report for the period June 1976 - Nov. 1977

WRIGHT, CH
0271 0 Development of a process for producing an ashless, low-sulfur-fuel from coal: Autoclave experiments
0278 117 Solvent-refined-coal (SRC) process. Development of a process for producing an ashless, low sulfur fuel from coal. Volume 11, Laboratory studies, part 4. Laboratory reactor studies and development of process variations
0282 160 Short residence time coal liquefaction process including catalytic hydrogenation

WRIGHT, DR
0680 27 Coal-fired powerplants

WRIGHT, FD
0479 39 Rock mechanics study of shortwall mining - final technical report
0480 144 Subsidence and its effect on longwall mine design

WRIGHT, FJ
0176 29 Method for improving gasification process rates and yields by means of electrophilic aromatic substitution pretreatment of coal
0179 141 Coal science: Basic research opportunities

WRIGHT, IG
0177 63 Conference of materials for coal conversion and utilization, Germantown, Maryland
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 173 Correlation of the high-temperature corrosion behavior of structural alloys in coal conversion environments

with the components of the alloys and of the corrosive environments
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980
0278 65 Evaluation of materials for use in letdown-valves and coal-feed pumps for coal liquefaction service
0282 168 Evaluation of materials for use in letdown valves in coal liquefaction systems - Final Report
0282 187 Evaluation of materials for use in letdown valves in coal liquefaction systems
0680 184 Observations of the low temperature (400 to 910 Degree F) corrosion/erosion behavior of selected alloys in an atmospheric pressure fluidized-bed coal combustor
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WRIGHT, JD
0774 2 Coal inventory project

WRIGHT, JK
1081 154 Reduction of hematite pellets with carbonized coal in a static bed

WRIGHT, KB
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WRIGHT, KL
0279 215 Applied Fischer-Tropsch kinetics for a flame sprayed iron catalyst

WRIGHT, PL
0381 5 The purpose and practice of coal preparation in Canada
0478 284 More accurate determination of coal stockpile inventories

WRIGHT, RH
1181 27 Models for computer assisted coal purchasing

WRIGHT, RJ
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

WRIGHT, RS
0578 14 Atmospheric chemistry of potential emissions from fuel conversion facilities

WRIGHT, SJ
0673 4 The reduction of emissions of sulfur oxides and nitrogen oxides by additions of limestone or dolomite during the combustion of fluidized-beds
0677 30 Combustion of coal in fluidized-beds
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

WRONIEWICZ, VS
0581 43 Converting coal creates contaminants

WU, EJ
0680 141 Chemical affiliation of trace metals in coal ash

WU, HL
0181 225 Safety device for a burner of a coal gasification plant

WU, NT
0176 122 An analysis of slow reactions in a porous particle

WU, RL
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

WU, WR
1077 108 An automatic recording plastometer for plastic properties of coal

WU, YC
0180 77 MHD/steam electrical power production - a status report
0180 78 Coal Technology '80
0676 13 Development program for MHD direct coal-fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1975
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 5 A description of the direct coal-fired MHD facility at the University of Tennessee Space Institute
0678 238 Insulator performance and anode-recession-rate in a direct coal-fired cold-copper diagonal-conducting wall MHD-generator
0681 95 MHD/steam electical power production - A report

WULLAERT, RA
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

WURFEL, H
0280 142 Process for hydrogenation of coal

WURFEL, HE
0178 89 Symposium on Coal Refining, Proceedings
0279 112 The Saarberg coal liquefaction process. A further development of proven I. G. Farben technology

WYCKOFF, P
0479 241 A ground control study at Vanguard No. 2 mine, Hanna, Wyoming

WYLIE, AW
0979 0 Nuclear activation logging for aluminum in iron-ores and coal

WYLLIE, DC
0479 255 The use of movement monitoring to minimize production losses due to pit slope failures

WYNNE, FE
0177 245 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual Report, June 1976 - May 1977
0178 177 Research and development of an advanced process for conversion of coal to synthetic gasoline and other distillate motor fuels, Annual report, June 1977 - May 1978
0280 129 Research and development of an advanced process for conversion of coal to sythetic gasoline and other distillate motor fuels, final report
0381 56 Coke from coal and petroleum

WYNNYCKYJ, JR
0681 122 A furnace wall ash monitoring system for coal fired boilers

WYSE, RF
0371 0 Low temperature carbonization and desulfurization of coal under elevated pressures

WYSOCKI, J
0679 188 Conceptual design of a gulf coast lignite-fired atmospheric fluidized-bed power plant

WYSS, WF
0178 342 Kinetic studies on the hydrocracking of coal extract

XU-YI, Z
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions,

April 9-11, 1980, Atlanta, Georgia

YABROFF, IW
0277 86 Synthetic liquid fuels development: Assessment of critical factors. Volume III. Regionalized industry, Social impact, Coal resource impact

YADAV, RA
1079 141 An improved method of digestion for the determination of nitrogen in coals

YAGHMAIE, F
0677 84 The nature of metals in petroleum fuels and coal derived synfuels

YAGINUMA, R
0282 183 Unusual effects of catechol upon the hydroliquefaction of coal

YAKHILEVICH, FM
0380 72 Process for the production of alumina from mineral component of solid fuels

YAKOBSON, BV
0277 87 Study of the hydroxylation of coal

YAKOVENKO, OI
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin

YAKOVLEV, VI
0279 185 The production of a cation-exchange material by the sulfonation of Kuckersite shale
1079 234 Sulfonation of the kerogen of Kuckersite shale

YAMADA, E
1081 164 Temperature dependence of hydrogen-1 NMR absorption in coal and pitch

YAMADA, H
0680 176 Flue gas treatment system for coal-fired power plants

YAMADA, T
0178 114 Investigation of hydrogasification of coal by thermogravimetry
1079 263 Utilization of petroleum pitch in metallurgical coke manufacturing

YAMADA, Y
0277 84 Solvolysis liquefaction of coal using petroleum vacuum residue. II Effect of rank of coal on yield of products in solvolysis liquefaction
1079 102 Investigation of retrogressive reactions leading to the carbonization of solvent-refined-coal

YAMAGUCHI, H
0179 343 Low-btu coal char gasification by a pressurized two-stage fluidized bed - Sunshine project
0181 23 Coal char gasification in a two-stage pressurized fluidized bed
0680 107 An experimental study for low-NO//x fluidized-bed coal combustor development. 1. Combustion under substoichiometric conditions
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

YAMAGUCHI, T
0182 16 Effect of SO//4**2- on catalytic activity of Fe//2O//3 for hydrocracking of coal
0681 222 Coal blending theory - retrospect and prospect
1080 83 Effects of manufacturing conditions on the porperties of coal-derived caking additives

YAMAKAWA, T

0279 46 Nonsolvent coal hydrogenation at short contact time
0281 115 Catalytic effect of metallic halide on non-solvent coal hydrogenation at short contact time

YAMAMOTO, N
0178 211 Carbonization of coal in a continuous fluidized-bed

YAMAMOTO, T
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

YAMANIS, J
0182 52 Reaction of sulfides in fuel gases with the iron oxide in coal ashes. Fixed-bed experiments and simulations

YAMASHITA, H
0181 116 Effects of catalysis and composition of inlet gas on gasification of carbon and coal

YAMASHITA, Y
0182 27 Influence of alkali on the carbonization process-II Carbonization of various coals and asphalt with NaOH

YAMAUCHI, T
0179 164 Synthesis of thermosetting polymers from the by-products of coal conversion processes
0278 135 The utilization of coal conversion process by-products, Final Report, June 1974 - Sept. 1977

YAN, TY
0176 90 Low sulfur fuels from coal
0276 11 Process for producing low-sulfur liquid and solid-fuels from coal
0281 117 Liquefaction of carbonaceous materials
0281 208 Zeolite based catalysts for hydrocracking
0282 197 Coprocessing of residual oil and coal
0380 94 Solid fuel use in small furnaces
0680 111 Method for No//x removal from stack gases

YANAGIUCHI, M
0681 196 The assessment of metallurgical coke and coal in relating to blast furnace practice

YANCHEVSKAYA, TV
0279 156 Optimization of the process of isolating indole from hard-coal tar fractions by liquid extraction

YANCIK, JJ
0475 9 First Symposium on Underground Mining, Volume I

YANG, Y
0280 149 Direct determination of polynuclear aromatic hydrocarbons in coal liquids and shale-oil by Laser Excited Shpol'skii spectrometry
0281 106 Deuterated analogues as internal reference compounds for the direct determination of benzo (a) pyrene and perylene in liquid fuels by Laser-Excited Shpol'skii Spectrometry

YANG, CC
1181 6 Future economy of electric power generated by nuclear and coal-fired power plants

YANG, DS
0177 217 Evaluation of slag and refractory compatibility for low-BTU gasification of coal for electrical-power generation

YANG, JT
0681 37 Coal combustion at high reynolds number

YANG, RT

0279 101 Mechanochemical effects in coal conversion. 1. Coal hydrogenation in gaseous hydrogen aided by mechanical energy
0677 8 Fluidized-Bed Coal Combustion with lime additives. The phenomenon of peaking of sulfur retention at a certain temperature.
0677 173 Regeneration of lime for fluidized-bed combustion with carbon, with silica and with coal-ash
0678 71 Fluidized-bed combustion of coal with lime additives: Catalytic sulfation of lime with iron compounds and coal-ash
0678 217 Enhancement of sorbent utilization in fluidized-bed combustion
0679 23 A regenerative process for fluidized-bed combustion of coal with lime additives
0679 64 Calcium-silicates: A new class of highly regenerative sorbents for hot-gas desulfurization
0679 94 Fluidized-bed combustion of coal with lime additives. Kinetics and mechanism of regeneration of the lime sorbent
0680 96 Catalytic iron oxide for lime regeneration in carbonaceous fuel combustion
0680 109 Regenation of lime from sulfates for fluidized-bed combustion
1079 84 Preferential adsorption of methane over hydrogen on certain coals

YANG, WC
0177 90 Coal processing technology, Volume 3
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 176 High-temperature pneumatic-transport line test facility
0179 349 Design of refractories for coal gasification and combustion systems - Final Report
0675 6 Fluidized-bed combustion process evaluation
0676 32 Fluidization technology, volume 2
0678 7 Projection of the slugging-bed height in a recirculating fluidized-bed
0678 23 Circulating-bed boiler concepts for steam and power generation
0678 121 Simulation and modeling of start-up and shutdown in a pilot-scale recirculating fluidized-bed coal devolatilizer
0678 136 Design of recirculating fluidized-beds for commercial applications

YANKO, WH
0581 75 Assessment of the radiological impact of coal utilization II. Radionuclides in Western coal ash

YANO, K
0679 193 Fluidized bed combustion of coal

YANOVSKII, SM
1078 146 Chromatographic method of determining the sorption capacity of natural coals

YAO, T
0278 168 Effect of phenolic compounds on liquefaction of coal in the presence of hydrogen-donor solvent
0279 98 Thermal decomposition of coal-related aromatic compounds in hydrogen-donating solvent

YARDLEY, ED
0479 111 Study of erosion and corrosion of materials used in hydraulic equipment with fire-resistant fluids

YARDUMIAN, LH
0173 12 Symposium papers, Clean fuels from coal
0174 12 Coal processing technology

YARES'KO, TD
0177 214 Kinetics of the thermal decarboxylation of brown-coal

YARLAGADDA, BS
0677 74 Neutron induced gamma spectrometry for on line compositional analysis in coal conversion and fluidized-bed combustion plants

YARMOSKA, BS
0281 33 Coal-oil mixtures. 3. Stabilization of powders vs. colloids: Coal/oil vs carbon-black/oil systems

YARZAB, RF
0178 222 Unification of coal-char gasification reaction mechanisms
0278 1 Dependence of coal liquefaction behaviour on coal characteristics. 3. Statistical correlations of conversion in coal-tetralin interactions
0278 8 Re-examination of the phenolic hydroxyl contents of coals
0280 12 Dependence of coal liquefaction behaviour on coal characteristics --4. Cluster analyses for characteristics of 104 coals
1079 77 Determination of the mineral-matter contents of coals by low-temperature ashing
1079 96 Hydroxyl contents of coals: New data and statistical analyses

YASHINA, TN
0778 38 Evaluation of the quality of coals as a raw material for hydrogenation
1080 158 Influence of the form of binding of carbon, hydrogen, and oxygen in coals on their tendency to undergo reduction

YASINSKY, JB
0179 209 Advances in fluidized-bed gasification process-i development

YATES, D
0581 85 Environmental chemical investigations of trace element mobilization in synthetic fuels manufacture

YATES, L
0580 49 Isothermal plastic behavior of bituminous coals

YATES, GA
0478 291 Technical Assessment of Patents Related to Underground Coal mine Haulage: Final report
0478 292 Technical Assessment of Patents related to underground coal mine haulage: Appendix I Power driven conveyors

YATES, JG
0582 11 A model for desulphurisation with limestone in a fluidised coal combustor

YATES, JT
0181 210 The catalyzed graphite-water vapor reaction - isotopic studies using barium carbonate (carbon-13)

YATROV, SN
1180 38 Technical and economic basis of the development of new methods for the intensive processing of coals

YAVERBAUM, L
0677 10 Fluidized bed combustion of coal and waste materials

YAVORSKII, IA
0178 312 Mechanism of the high-temperature oxidation of coal
0178 362 Mechanism of the inhibition by carbon monoxide of the reaction of carbon with carbon dioxide
0179 270 Influence of the retarding effect of carbon-monoxide on the rate of oxidation of a carbon particle by carbon-dioxide under intradiffusion conditions
1078 151 Effect of carbon monoxide on the oxidation of carbon by oxygen
1079 206 Influence of the properties of a gaseous reagent of the dependence of the pre-exponential factor of the arrhenius equation as a function of the activation energy in the reaction of fibrous carbonaceous materials
1079 210 Influence of carbon monoxide on the kinetics of the reaction of carbon dioxide with carbon in the transitional regime

YAVORSKY, PM
0173 12 Symposium papers, Clean fuels from coal
0173 42 Pressurized hydrogasification of raw coal in a dilute-phase-reactor

0174 12 Coal processing technology
0178 155 Production of SNG by free-fall dilute-phase hydrogasification of coal
0274 3 Synthoil process for converting coal to nonpolluting fuel-oil
0275 20 Conversion of caking coals to low sulfur fuel-oil in the Synthoil process
0276 46 Coagulation and filtration of solids from liquefied coal of synthoil process
0276 47 Filterability of a coal-derived liquid
0277 55 Experience in feeding coal into a liquefaction process development unit
0277 132 Fluidization theories and applications
0278 27 Aqueous effluents from the synthoil process.
0278 158 Processing of centrifuged solids from liquefied coal
0279 127 Coal liquefaction succeeds without added catalyst
0280 231 Heat transfer studies of packed bed reactors
0280 369 Heat transfer characteristics of two-phase flow through packed beds
0574 28 Environmental aspects of coal liquefaction
0576 11 Free fall dilute phase hydrogasification of coal

YEAGER, K
0680 202 The proceedings of the sixth international conference on fluidized bed combustion. Volume 1-plenary sessions, April 9-11, 1980, Atlanta, Georgia
0681 126 R&D Status Report, Coal combustion systems division
0682 59 R&D status report - coal combustion systems division

YEAGER, KE
0170 1 A survey of fuel and energy information sources
0172 7 Survey of coal availabilities by sulfur content
0379 133 More coal per ton
0678 206 Development of efficient and reliable coal-fired power-plants for the future

YEAGER, PR
0580 0 Environmental and climatic impact of coal utilization

YEBOAH, YD
0180 113 Effect of calcined dolomite on the fluidized bed pyrolysis of coal
0281 51 Distribution of coal heating value during the fluidized-bed pyrolysis of coal in the presence of dolomitic stones
0282 93 Coal pyrolysis by hot dolomitic solids from a fluidized bed combustor

YEE, W
0177 291 Coal gasification valves. Phase 1. Thermal Analysis Report

YEFIMOV, SS
0878 48 Experimental study of moisture transfer in bulk coal subject to freezing

YEGULAP, TM
0879 33 Evaluation of alternate hydraulic transport concepts for coal haulage in underground mines - final technical report

YEH, CL
0279 232 Solid SRC - a building block
0281 141 Solid solvent refined coal - a building block

YEH, HC
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0680 83 Respirable aerosols from fluidized bed coal combustion - 1. Sampling methodology for an 18-inch experimental fluidized bed coal combustor
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

YEH, HJ
1079 37 Molecular interaction of quinoline with coal-liquid fractions

YEH, JT
0179 281 Development of a slagging cyclone gasifier for MHD applications

YEN, JH
0581 20 Reaction mechanism of half-calcined dolomite during sulfidation
0678 190 Study of the Mechanism of the Hydrogen sulfide/dolomite reaction, Annual report, July 1977 - June 1978

YEN, TF
0276 20 Chemistry and structure of coal-derived asphaltenes, Phase I, Quarterly Progress Report, Jan - March 1976
0276 49 Separation of coal liquids from major liquefaction processes to meaningful fractions
0277 43 Chemistry and Structure of coal-derived asphaltenes, Phase I, Quarterly Progress Report, July - Sept. 1975
0278 2 Coal-liquefaction products from major demonstration processes. 1. Separation and analysis
0278 24 Novel Approaches for determination of degree of association of coal-derived products by vapor-pressure-osmometry
0278 179 Analytical chemistry of liquid-fuel sources. Tar-sands, oil-shale, coal, and petroleum
0279 72 Chromatographic separation and characterization of coal-derived asphaltenes
0279 170 Structural difference between petroleum and coal-derived asphaltenes
0280 27 Solubility parameters in coal and coal liquefaction products
0280 311 Chemistry and structure of coal derived asphaltenes and preasphaltenes
0281 253 Fourier transform infrared and solid state carbon-13 nuclear magnetic resonance spectroscopic analyses of pyrolysed coal liquid asphaltene
0282 37 Mesophase formation in coal-derived liquid asphaltene
0579 3 Environmental noise assessment for synthane pilot-plant
1078 41 Charge transfer complexes of coal-derived asphaltenes
1078 128 Structural characterization of solvent fractions from five major coal liquids by proton nuclear-magnetic-resonance
1079 3 Determination of nitrogen and oxygen functional groups in coal-derived asphaltenes
1079 8 Electron-spin-resonance study of coal by line and width line shape analysis

YEN, YK
0276 21 Batch-autoclave studies of catalytic hydrodesulfurization of coal

YERGEY, AL
0173 20 Gasification of fossil fuels under oxidative, reductive, and pyrolytic conditions

YERGIN, D
1179 17 Energy future: Report of the energy project at the Harvard Business School

YERMAKOV, YI
0281 204 Effects of metal-support interactions on the synthesis of methanol over palladium

YERUSHALMI, J
0176 56 Fast fluid-bed gasification
0177 90 Coal processing technology, Volume 3
0177 290 Improved techniques for gasifying coal. First annual report for July 1976 - June 1977
0181 115 Design of high-velocity fluid-beds for flash hydrogenation
0277 132 Fluidization theories and applications
0676 32 Fluidization technology, volume 2
0678 111 Flow regimes in vertical gas-solid contact systems
0681 84 Circulating fluidized bed boilers

YESAVAGE, VF
0178 272 Coal processing technology, Volume IV

0282 105 Measurement and correlation of the enthalpy of coal-derived liquids

YEUNG, ES
0281 120 High-performance liquid chromatographic studies of coal liquids by Laser-based detectors

YEVAK, RJ
0380 164 Low temperature chemical fragmentation of coal
1082 38 Aryl-alkyl groups in coals

YEWELL, J
0878 38 Licking-River terminal: A showcase in coal handling

YEWELL, MR
0280 303 A model for the isothermal plastometric behavior of coals

YIGINSU, I
1079 67 Effect of mercury on depolymerization of coal
1081 63 Depolymerization of Turkish lignites. 1. Effect of substituted phenols

YIM, YJ
0172 10 The importance of temperature approach in heat exchangers
0177 139 Economic evaluations of intermediate-Btu-gas plants meeting the energy demands
0178 107 Economics of producing ammonia from coal by pressurized entrained and Koppers-Totzek gasification
0180 78 Coal Technology '80

YING, DH
0280 153 Gas holdup in gas-liquid and gas-liquid-solid flow reactors
0280 343 Gas/slurry flow in coal liquefaction processes (fluid dynamics in 3-phase flow column), Qtr Tech Prog Rep - January 1-March 31, 1980
0281 182 Experimental simulation of solids distribution in coal liquefaction dissolvers
0281 196 Experimental support for coal reactor design for the SRC-I demonstration plant

YIP, H
0180 78 Coal Technology '80
0680 70 High-sulfur fuel combustion in a circulating bed

YLVISAKER, I
0679 202 Coal-fired advanced electric generation

YNOVSKAYA, MF
1078 146 Chromatographic method of determining the sorption capacity of natural coals

YOCUM, H
0474 3 Fifth Symposium on Coal Mine Drainage Research

YODNANE, P
0577 59 Preliminary evaluation of the use of powdered coal as a natural-gas substitute for sewage sludge incineration. Final report, June - November 1977

YOKLEY, RA
1081 104 Matrix isolation Fourier transform infrared spectrometric detection in the open tubular column gas chromatography of polycyclic aromatic hydrocarbons

YOKOKAWA, C
1081 95 Effect of air-oxidation on the pore-structure of coals and cokes or chars obtained from oxidized coals

YOKONO, M

0281 121 Hydrogen donor and acceptor abilities of pitch: Proton NMR study of hydrogen transfer to anthracene
1081 70 Carbonization and liquid-crystal (mesophase) development. 19. Co-carbonization of oxidized coals with model organic compounds

YOKONO, T
0279 175 Temperature dependence of NMR absorption in coal and pitch
0281 121 Hydrogen donor and acceptor abilities of pitch: Proton NMR study of hydrogen transfer to anthracene
0282 11 Assessment of the activities of catalysts for the hydrocracking of coal by means of hydrogen evolution
1078 61 Aromaticity of coal extract by 1H and 13C pulsed n.m.r. methods
1078 68 Nuclear-magnetic-relaxation studies of coal
1079 50 High temperature proton NMR study of coal and pitch at the early stages of carbonization
1079 58 Spin-diffusion effects in spin-lattice relaxation in coals
1080 23 Protium NMR study of the co-carbonization of hydrogenated anthracene oil with coal-tar pitch and coal
1081 60 Copolymerization of methylmethacrylate on a ball-milled surface of coal at 77 K
1081 70 Carbonization and liquid-crystal (mesophase) development. 19. Co-carbonization of oxidized coals with model organic compounds
1081 87 High-temperature Proton NMR study of oxidized coal
1081 108 Nuclear magnetic proton relaxation studies of oxidized coals
1081 164 Temperature dependence of hydrogen-i NMR absorption in coal and pitch

YOKOTA, S
0280 121 Coal liquefaction process and apparatus therefor

YOKOYAMA, N
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

YOKOYAMA, S
0179 21 Catalytic reduction of carbon-dioxide. 1. Reduction of carbon-dioxide with carbon-carrying potassium-carbonate
0182 16 Effect of SO//4**2- on catalytic activity of Fe//2O//3 for hydrocracking of coal
0278 111 Mechanism of hydrogenation of coal-derived asphaltene
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0279 76 Structural characterization of coal-hydrogenation products by proton and carbon-13 nuclear-magnetic-resonance
0279 162 Studies on coal hydrogenation reaction using high pressure differential thermal analysis
0280 5 Viscosity of coal paste under high hydrogen pressure
0280 207 Analysis of a coal-derived liquid using high-pressure liquid chromatography and pressure liquid chromatography and synchronous fluorescence spectrometry
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
0281 85 Combination of Carbon-13 and Proton-NMR spectroscopy for structural analysis of neutral, acidic and basic heteroatom compounds in products from coal hydrogenation
0281 226 Application to field-ionization and field-desorption mass spectrometry to the analysis of coal-derived oil
0282 25 Chemical structure of coal-derived oil. Structural changes of each compound type with severity of hydrogenation
1080 15 Derivation of structural parameters for coal-derived oil by carbon-13 nuclear-magnetic-resonance spectrometery

YOO, JS
0380 105 Process for removing sulfur from coal
0380 106 Process for removing sulfur from coal
0381 46 Process for removal of sulfur and ash from coal
0381 98 Process for removing sulfur from coal
0676 9 Removing sulfur from coal

YOON, H
0177 131 Modeling and analysis of moving-bed coal gasifiers, Volume 1
0178 120 Modeling and analysis of moving-bed coal gasifiers, Volume 2
0178 314 Model for moving-bed coal gasification reactors
0179 42 Feasible operating regions for moving-bed coal gasification reactors
0179 224 Transient behavior of moving-bed coal gasification reactors

0179 258 Application of Conoco's super-meth combined shift-methanation process to the BGC/Lurgi slagging gasifier

YOON, YK
0177 256 Proceedings of the third annual underground coal conversion symposium
0178 336 Electrical properties of Eastern bituminous coal as a function of frequency, polarization and direction of the electromagnetic wave, and temperature of the sample

YORKOVSKII, IM
0181 151 An investigation of the graphitization of anthracites

YORULMAZ, Y
0179 342 Catalytic hydrogenation of Turkish lignites to oxygen free oil and gas

YOSHIDA, K
0179 343 Low-btu coal char gasification by a pressurized two-stage fluidized bed - Sunshine project
0181 23 Coal char gasification in a two-stage pressurized fluidized bed
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 31 Fluidization technology, volume 1
0676 32 Fluidization technology, volume 2
0681 11 Fluidized bed combustion technologies in Japan

YOSHIDA, R
0276 89 Mechanism of high-pressure hydrogenolysis of Hokkaido coals (Japan). 1. Simulation of product distributions
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0279 184 The initial stage of coal hydrogenation in the presence of catalysts
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
0282 185 Elucidation of structural and hydroliquefaction characteristics of Yallourn brown coal by carbon-13 CP/MAS nmr spectrometry
1079 28 Field desorption mass spectrum of coal-derived liquid

YOSHIDA, T
0279 41 Nature of Athabasca Tar-Sand (Canada) and tar-sand derivatives. A comparison with coal-hydrogenolysis products
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
0281 85 Combination of Carbon-13 and Proton-NMR spectroscopy for structural analysis of neutral, acidic and basic heteroatom compounds in products from coal hydrogenation
0281 226 Application to field-ionization and field-desorption mass spectrometry to the analysis of coal-derived oil
0282 58 Effects of petrographic constituents in three Yallourn brown coal lithotypes on hydroliquefaction processes
0282 118 Determination of field ionization relative ion sensitivities in mass spectrometry of coal-derived oil components
0282 185 Elucidation of structural and hydroliquefaction characteristics of Yallourn brown coal by carbon-13 CP/MAS nmr spectrometry
1079 28 Field desorption mass spectrum of coal-derived liquid
1079 121 Quantitative-13 C n.m.r. spectroscopy of a coal-derived oil and the assignment of chemical shifts
1080 15 Derivation of structural parameters for coal-derived oil by carbon-13 nuclear-magnetic-resonance spectrometery
1080 48 Average chemical structure of mild hydrogenolysis products of coals

YOSHIDA, Y
0280 347 Effect of coal particle size on the coal hydrogenation reaction - in relation to the plasticity of coal
1079 28 Field desorption mass spectrum of coal-derived liquid
1079 121 Quantitative-13 C n.m.r. spectroscopy of a coal-derived oil and the assignment of chemical shifts

YOSHIHARA, M
1081 75 Determination of intrinsic viscosity of fractionated pitches and discussion on the shape and size of pitch molecules

YOSHII, N
0881 46 Granulating Apparatus

YOSHII, T
0282 183 Unusual effects of catechol upon the hydroliquefaction of coal

YOSHIKAWA, H
0282 183 Unusual effects of catechol upon the hydroliquefaction of coal

YOSHIMURA, M
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

YOSIM, SJ
0180 276 The gasification of various coals in molten salts

YOTT, RA
0681 189 Coal Technology '81, Vol. 5

YOUH, C
1077 101 A modified procedure for determination of the fluorine content in geological materials

YOUL, SF
0979 0 Nuclear activation logging for aluminum in iron-ores and coal

YOUNG, BC
0180 21 Factors affecting the volatile-matter yield from chars
1078 102 Method for determining the rate of oxygen sorption by coals and chars at low temperatures
1079 36 Rate of oxidation of char and coal in relation to their tendency to self-heat

YOUNG, CC
0675 0 Fluidized-bed combustion of low grade fuels

YOUNG, CW
0180 78 Coal Technology '80
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia

YOUNG, DC
0280 345 Investigations of mechanisms of hydrogen transfer in coal hydrogenation - Final Report
0282 157 Hydrogen/deuterium transfer in coal liquefaction

YOUNG, DT
0677 34 Fluidized combustion of beds of large, dense particle in reprocessing HTGR-fuel
0678 30 Solids handling and fluidized-bed combustion techniques developed for an HTGR fuel reprocessing pilot plant

YOUNG, FK
0280 230 Data bank for synthetic fuels

YOUNG, JE
0175 42 Chemical Engineering Division, Coal technology semiannual report, January - June 1975
0175 57 Gasification of chars produced under simulated in-situ processing conditions, Quarterly report for the period July - September 1975
0176 99 Gasification of chars produced under simulated in-situ processing conditions. Annual report for the period October 1975 - September 1976
0177 256 Proceedings of the third annual underground coal conversion symposium
0177 289 Proceedings Second Annual Underground Coal Gasification Symposium, sponsored by the Morgantown Energy Research Center, Morgantown, West-Virginia, August 1976
0178 158 Reaction characteristics during in-situ gasification of Western sub-bituminous coals
0178 389 Laboratory support for in situ gasification: Reaction kinetics

0179 47 Laboratory support for in-situ gasification -- reaction kinetics. Annual report October 1976 - September 1977
0278 124 Development of a calorimeter to determine heats of reaction of hydrogen with coal and coal slurries

YOUNG, LS
1079 123 Influence of hydrogen bonding on the viscosity of coal liquids

YOUNG, RA
0578 40 Coal desulfurization pilot-plant solves own air-pollution problems

YOUNG, RJ
0178 64 Toward building a safe and healthful coal gasification industry
0178 355 Coal gasification and occupational health

YOUNG, SG
0478 147 Surface effects of underground mining

YOUNG, WE
0279 135 Ceramics technology readiness development program - phase 1: conceptual designs and material screening - final report
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 119 The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels

YOUNG, WW
0681 93 Utilization of fluidized bed combustion for oil field steam generation
0681 189 Coal Technology '81, Vol. 5

YOUNGBERG, D
0182 90 A model for roof spalling and its application to predicting cavity shape for the Hanna III UCG field test

YOUNGBERG, AD
0781 4 Pyrometamorphism caused by the Hanna II, phases 2 and 3 underground coal gasification experiment
0781 5 Hyrogeologic evaluation of the Hanna coal gasification site

YOUNGBLOOD, G
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland

YOUNGBLOOD, AJ
0176 128 Results and analysis of three experiments in a bench-scale tube-wall methanation reactor
0177 301 Deacitvation of Raney nickel methanation catalyst

YOUNGBLOOD, EL
0180 2 Hydrocarbonization of coal in a fluidized-bed
0281 181 Characterization of coal-solvent slurries and H-Coal PDU reactor effluent at high temperatures and pressures
0281 193 Experimental support for coal conversion demonstration projects at the Oak Ridge National Laboratory: preheater rheology, slurry mixing, and vacuum bottoms viscosity
0281 264 Hydrocarbonization Research: Completion report
0282 132 The Rheological characterization of coal liquefaction preheater slurries

YOUNGBLOOD, LE
0282 31 Carbon-14 tracer study of the fate of tetralin under simulated SRC-I coal liquefaction conditions

YOUNGBLUT, KC
0173 16 Materials selection ... coal gasification pilot plant

YOUNGDAHL, CA
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg,

Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0180 179 Development of a noninvasive acoustic leak detection system for large high pressure gas valves

YOUNGERG, AD
0781 6 Petrographic analysis of unaltered and thermally metamorphosed coal from the Hanna, Wyoming gasification area

YOUNGSTROM, MP
0476 22 Sixth Symposium on Coal Mine Drainage Research

YOUSEFIAN, V
0678 232 Computer modeling of the effects of coal-ash chemistry on the performance of MHD-generators
0680 207 Studies of MHD generator performance with oxygen enriched coal combustion

YOUSSEF, AM
1078 67 Porous structure of Maghara coal
1079 167 Changes in the sorption properties of coal and cokes due to storage in ambient air

YOUSSEF, KS
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

YOUTCHEFF, J
1080 24 Analysis of kaolinite in coal by infrared spectroscopy
1080 28 Concerning the putative presence of nitrate in lignites

YU, AD
0280 183 Reduction of viscosity of coal-derived products using CO//2

YU, AT
0180 78 Coal Technology '80
0881 48 Coal Technology '81, Vol. 2

YU, WC
0179 28 Parameter sensitivity and kinetics-free modeling of moving-bed coal gasifiers

YU, YS
0479 192 CANMET's rock mechanics research at the Kidd Creek Mine
0680 74 Carbonate sulfur sorbent studies

YUAN, E
0277 132 Fluidization theories and applications

YUCEL, O
0882 25 Computer application of a preliminary feasibility model to a Turkish iron-ore and a Virginia coal slurry pipeline

YUE, GK
0580 0 Environmental and climatic impact of coal utilization

YUGAMI, H
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

YULIN, MK
0278 188 Hydrocracking of coal distillates
0278 189 Hydropurification of coal distillates
0278 198 Mathematical model of the hydrogenation treatment of coal

YUMIYAMA, M
0179 243 Gasification of coal char in a two-stage pressurized fluidized bed
0179 343 Low-btu coal char gasification by a pressurized two-stage fluidized bed - Sunshine project
0181 23 Coal char gasification in a two-stage pressurized fluidized bed

YUNG, KT
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

YUNG, S-C
0580 186 Second symposium on the transfer and utilization of particulate control technology Volume IV. Special applications for air pollution measurement and control

YUNGMAN, VS
0677 79 Conference on high temperature sciences related to open cycle, coal-fired MHD systems

YUREK, GJ
0581 54 The formation of inorganic particulates by homogeneous nucleation in gases produced by the combustion of coal

YURIEVSKAYA, NP
0163 1 Underground processing of fuels

YURIN, AL
1080 172 The mechanism of the thermochemical transformations of coals

YURINA, LV
1079 186 The thermal degradation of petrographically inhomogeneous coals of the Karaganda Basin

YURKEVICH, EA
0379 78 Chlorinated peat wax
1079 243 The extraction of peat bitumens
1081 187 An investigation of the chemical composition of the resin fraction of brown-coal wax

YURKO, JR
0775 0 Geology and coal reserves of the Ardley-Coal-Zone of Central-Alberta
0776 2 Deep Cretaceous-coal resources of the Alberta-Plains

YURUM, Y
1078 32 Nuclear-magnetic-resonance spectra of two reductively ethylated fuels
1079 63 Pyridine extracts of solid fuels
1079 67 Effect of mercury on depolymerization of coal
1081 63 Depolymerization of Turkish lignites. 1. Effect of substituted phenols
1081 64 Depolymerization of Turkish lignites. 2. Effect of phenol concentration in a closed system

YUST, CS
0279 85 Solids formed in a solvent-refined-coal pilot-plant
1078 6 Submicron-sized mineral component of vitrinite
1078 171 SEM and EMA studies of a solvent refined coal pilot plant carbonaceous plug
1079 103 Transmitted near-infrared microscopy of coal
1081 166 The ultrafine structure of coal determined by electron microscopy

ZABELLO, LA
0680 235 Mathematical description of the coal heating process using gaseous heating agent in multi-stage equipment

ZABETAKIS, MG
0181 224 Proceedings of the 2nd symposium on valves for coal conversion and utilization, October 15-17, 1980

0477 93 Third Institute on Coal Mine Health and Safety
0481 74 Productivity and safety in U.S. bituminous coal mines
0482 41 U.S. Coal Mine Safety Performance

ZABOROWSKY, EJ
0381 56 Coke from coal and petroleum

ZABRAMNYI, DT
1078 155 Non-fuel processing of coals
1081 188 An investigation of the properties of coal-alkali reagents from a number of coals

ZACHAR, FR
0480 0 Mining methods and size consist of run-of-mine coal

ZACHARIASON, R
0180 78 Coal Technology '80

ZACHER, J
0181 182 An investigation of the composition of the neutral fraction of the condensate from the detoxification of generator gas

ZACKAY, VF
0177 279 Materials for coal conversion and utilization, Gaithersburg, Maryland
0178 330 Third annual conference on materials for coal conversion and utilization, October 10 - 12, 1978, Gaithersburg, Maryland
0179 122 Fourth annual conference on materials for coal conversion and utilization, October 9 - 11, 1979, Gaithersburg, Maryland
0179 237 Development of thick plate pressure-vessel-steel for coal-gasifiers

ZACZEPINSKI, S
0279 34 Fluid coking of coal liquefaction residues. Final technical progress report and interim technical progress report for fourth residue
0282 72 Solvent quality effects in the Exxon Donor Solvent coal liquefaction process
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

ZAGER, LF
0479 77 Five years of worker incentives at Amherst coal

ZAGORODNIK, AV
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

ZAHARCHUK, R
0579 123 Proceedings: Symposium on flue gas desulfurization held at Las Vegas, Nevada, March 1979, Volume II
0580 150 Environmental assessment of the dual alkali FGD system applied to an industrial boiler firing coal and oil

ZAHNER, JC
0176 77 Utilization of low-Btu natural-gas

ZAHNSTECHER, LW
0673 27 A pressurized fluidized-bed boiler development plant

ZAHRADNIK, RL
0173 43 Chemistry and physics of entrained coal gasification
0179 318 Effect of carrier gas on tar yield and quality of occidental flash pyrolysis
0275 9 Coal Conversion and Utilization R & D in ERDA

ZAHURANEC, G
0378 51 Inert-marker studies during high-temperature formation of FeS//2 from FeS//1 + x

ZAIDI, A
0179 211 Mass transfer in the liquid-phase Fischer-Tropsch synthesis
0280 157 Hydrodynamic properties of the Fischer-Tropsch slurry process

ZAIKIN, VG
1079 147 Determination by the chromato-mass-spectrometic method of the individual compositions of the water-soluble acids obtained by oxidizing coals

ZAITSEV, MI
0380 72 Process for the production of alumina from mineral component of solid fuels

ZAJDEL, A
0380 18 Atomization of coal-liquid mixtures

ZAJIC, JE
0380 40 The release of vanadium from Athabasca oil-sands cokes by leaching techniques

ZAKARIA, J
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

ZAKAY, VF
0179 229 Design of steels for coal gasification pressure vessels

ZAKETT, D
0281 274 Analysis of synfuels by MS/MS
0381 8 Determination of polycyclic aromatic hydrocarbons in solvent-refined coal by negative chemical ionization-charge inversion mass spectrometry/mass spectrometry
1079 43 Analysis of coal liquids by mass-analyzed ion kinetic energy spectrometry

ZAKHAROV, AG
0679 130 Change in the electric potential of solid fuels on their combustion and gasification

ZAKKAY, V
0280 65 Experiments on heat exchanger solidity for coal-fired fluidized-bed applications
0677 138 Fluid dynamics of a fluidized-bed packed with heat-exchangers, Annual Report, Feb. 1976 - Jan. 1977, Part A. The pilot fluidized-bed - Experiments analysis and conclusions, Part B. The large scale fluidized-bed facility
0677 201 Investigation of methods for improving heat-transfer film coefficients in a fluidized-bed packed with heat-exchangers
0678 35 Heat-exchanger designs for coal-fired fluidized-bed
0679 191 Bed expansion and attrition studies in a coal-fired fluidized bed
0680 204 The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9-11, 1980, Atlanta, Georgia
0680 240 Bed expansion and heat transfer measurements in a pressurized fluidized bed
0681 152 Bed expansion studies and slugging characteristics in a pressurized fluidized bed of large particles

ZALAR, JL
0482 41 U.S. Coal Mine Safety Performance

ZALKIND, J
0577 54 EPA program status report: Synthetic-fuels from coal, including process overview with emphasis on environmental considerations

ZALKIND, VI
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation
0678 97 Results of tests and studies of American materials in the channel of the MHD facility U-02, (phase III)

ZALTZMAN, R
0579 60 Possible utilization of waste streams from a conceptual coal conversion facility

ZAMANOV, VV
0277 67 Liquid products from coal
0278 183 Estimation of the economic effectiveness of the production of liquid products from coal

ZAMANOVA, LP
0278 188 Hydrocracking of coal distillates

ZAMOTIN, VB
0477 187 Calculating the durations of surface movements

ZAMPAGLIONE, V
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

ZAMYSLOV, OB
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

ZAMYSLOV, VB
0677 78 Question of initiation in the oxidation of brown coal by oxygen
1077 94 Change in the yield of humic acids on the oxidation of brown-coal with oxygen
1078 148 Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process

ZANDER, M
0179 139 A carbon-13 N.M.R. study of low-volatile by-products of coal- gasification
1079 86 Recent advances in the analysis of coal-derived products
1081 12 Simple scheme for the estimation of concentrations of polycyclic aromatic hydrocarbons in tars

ZANDERIGHI, GM
0281 186 Surface-supported metal cluster carbonyls. Chemisorption, decomposition and reactivity of Os//3(CO)//12, H//2Os(CO)//10 and Os//6(CO)//18 supported on silica and alumina and the investigation of the Fischer-Tropsch catalysis with these systems

ZANE, L
0177 64 Thermal and structural response for underground coal gasification

ZARETSKII, MI
0279 156 Optimization of the process of isolating indole from hard-coal tar fractions by liquid extraction

ZARITSKY, BM
1080 78 Carbonaceous cast-moulding composition

ZAROCHAK, MF
0178 386 Fischer-tropsch studies in a bench-scale tube wall reactor using magnetite, raney iron, and taconite catalysts

ZARUBIN, LS
0379 94 Technological evaluation of coals as cleanable materials

ZAUDERER, B

0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
0679 167 Evaluation of technical feasibility of closed cycle non-equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979

ZAVADELL, W
0677 251 Steam generation with western-Canadian coals

ZAWACKI, TS
0181 40 Process optimized for high pressure gas cleanup

ZBORAY, JA
0180 105 Gas distributor for fluidized bed coal gasifier

ZBORSHCHIK, MP
0480 198 Use of the method of finite elements to calculate the stresses and strains around a working preserved in caved rock
1081 128 The change in the elastic properties of semicoke-coke across a cross-section of the layer in a continuous coking chamber

ZDANSKI, FK
0676 31 Fluidization technology, volume 1

ZE, TE
0379 122 Coal entrainment from vibrating beds in drying equipment

ZEEN, PJ
1080 52 An improved hydrogenation-microcoulometric method for the determination of nitrogen in organic materials including coal and heavy residual oils

ZEGIL'SKII, DS
0681 104 Products of the thermal degradation of brown coal modified with calcium hydroxide

ZEILINGER, JE
0376 18 Physical desulfurization of fine-size coals on a spiral concentrator

ZEIN-EL-DEEN, A
1079 7 Kinetic investigation of the Fischer-Tropsch synthesis

ZEINDLER, RW
0481 35 Application of a cross-pit bridge conveyor system in mining

ZEKEL, LA
0278 184 Use of the mineral fraction from the regeneration of molybdenum compounds in the fuel hydrogenation process
0280 310 The forms of molybdenum compounds in the sludges from the coal liquefaction process
0379 92 Use of coal enrichment wastes of the Sakhalin basin

ZEKZER, MP
0676 15 Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics

ZELEL, LA
0678 247 Extraction of molybdenum from the fly-ash produced in the combustion of coal hydrogenation sludge

ZELENSKI, SG
0580 152 Inventory of organic emissions from fossil fuel combustion for power generation

ZELIN'SKI, G
0178 357 Problems in improving coal utilization efficiency

ZELLARS, G
0679 187 Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

ZELLARS, GR
0680 136 Improved PFB operations: 400-hour turbine test results
0680 203 The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9-11, Atlanta, Georgia

ZELLER, R
0179 169 Gasification of coal and rectisol-wash processes

ZELLMER, SD
0477 143 Abandoned coal mine refuse areas: Their reclamation and use
0579 5 Land reclamation at abandoned deep coal mine
0579 88 Multidisciplinary approach to reclamation of abandoned refuse sites

ZEMKOSKI, J
1177 21 The potential for application of energy storage capacity on electric utility systems in the United-States - part II

ZEN'KEVICH, LA
0379 86 Mineralogical composition of the inorganic fraction of peats of the deposit of Tyumen province

ZENGERLE, MW
0681 194 Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

ZENKEVICH, VB
0677 219 Superconducting magnet system for an MHD generator

ZENZ, FA
0182 19 Scaleup fluid bed reactors
0271 1 Fluidization: Fundamental studies, solid-fluid reactions and applications
0676 32 Fluidization technology, volume 2

ZERDA, TW
1081 96 Raman studies of coals

ZEREN, RW
1177 44 Symposium on coal dilemma: How and where to use it

ZEY, AF
0182 38 Underground coal gasification

ZG, OSIPOVA
0180 244 Catalytic ammoxidation of coal

ZHARIKOV, IF
0477 156 The role of water in the blasting process

ZHAROV, YN
0379 92 Use of coal enrichment wastes of the Sakhalin basin

ZHAROVA, MN
0178 365 Substance composition, structure and properties of coals in connection with their processing into liquid and gaseous fuels

0278 193 Extraction of coals with active solvents in connection with their tendency to undergo reduction
0377 30 Influence of the conditions of vibromilling on the properties of coal oxidation products
0778 37 Influence of the structural features of coals on their tendency to undergo reduction
1077 79 Questions of the chemistry and structure of coals
1079 191 Coal of the Khabarovsk deposit as a raw material for the isolation of waxes and resins
1079 194 Influence of features in the structure of coals on their behaviour during degradation
1080 158 Influence of the form of binding of carbon, hydrogen, and oxygen in coals on their tendency to undergo reduction
1080 182 An investigation of coal fractions isolated by extraction with dimethylformamide
1081 131 Evaluation of the suitability of coals for the production of synthetic fuel
1081 148 Influence of some structural features of a coal on its tendency to undergo reduction

ZHDANKIN, VN
0677 245 MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S.-U.S.S.R. cooperative program in MHD power generation

ZHDANOV, VK
1080 78 Carbonaceous cast-moulding composition

ZHDANOV, VS
1081 210 The use of diffuse reflection spectroscopy for obtaining the electronic spectra of coals

ZHDANOVA, GK
0681 109 Dependence of the rate of thermal treatment of coal-polymer blanks on the heat of the transition of a polymer with a cross-linked structure into coke

ZHELNIN, VA
0678 109 MHD fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

ZHENG, J
0582 11 A model for desulphurisation with limestone in a fluidised coal combustor

ZHIRNOV, BS
1079 160 Pulse method of determining the reactivity of carbonaceous materials with respect to steam
1079 227 Pulse method of determining the reactivity of carbonaceous materials with respect to carbon dioxide

ZHISLINA, IL
1080 200 Differentiation of the coals of the Donbass with respect to the intensity of heat evolution in oxidizing processes

ZHITOV, BN
0380 160 Coking a preheated charge with a high content of gas coal at the Western Siberia Iron and Steel Works

ZHONGSHU, L
0480 85 Hydraulic transport of coal

ZHOROV, YM
0180 267 Prospects and technical and economic evaluation of methods of obtaining synthetic liquid fuel from coal

ZHUKOV, VK
1079 189 An investigation of the thermal destruction of cottongrass peat in the presence of orthophosphoric acid
1081 187 An investigation of the chemical composition of the resin fraction of brown-coal wax

ZHURAVEL, VA
0380 139 Hydrocyclones to remove sludge from coal fines

ZHUROVSKI, D

1080 125 Features of measurement of the electrical characteristics of coal tar

ZHUZHIKOVA, GA
0379 57 Hydrogenation of cyclopentadiene under equilibrium conditions

ZIEGELMILLER, W
0180 78 Coal Technology '80

ZIEGER, WH
0578 5 Environmental assessment of coal liquefaction

ZIEGLER, AA
0678 88 Testing of a pulsed L-valve feeder for use in fluidized-bed combustion and sorbent regeneration units
1179 39 Technical possibilities and economic prospects for coal refining

ZIEGLER, EN
0281 131 Kinetics of coal devolatilization and hydropyrolysis
0281 132 Kinetics of coal hydrogenation

ZIEGLER, MJ
0679 161 Converting existing boilers to coal-oil mixture

ZIELINKSKI, RE
0181 36 A successful in-situ coal gasification test in the U.S.A.

ZIELINSKI, H
0280 254 Studies on tars from the fast pyrolysis of coal

ZIELINSKI, EA
0681 207 Fluidized bed combustion meeting energy needs of the future

ZIELINSKI, RE
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 85 Initial results from a linked-vertical-well field test in bituminous coal
0179 99 Pricetown-I - Instrumentation and preliminary data
0179 263 Pricetown I - in-situ coal conversion field test for bituminous coals
0180 227 Proceedings of the 6th underground coal conversion symposium, Shangri-la, Oklahoma, July 13/17, 1980
0181 25 Mass balance results for Pricetown I underground coal gasification
0181 228 In-situ coal gasification - a future source of energy
0182 87 Instrumentation for optimizing an underground coal gasification process
0781 7 Pricetown post test core analysis

ZIELKE, CW
0276 66 Zinc-chloride coal liquefaction process
0277 125 Zinc-halide hydrocracking process for distillate fuels from coal, Annual technical progress report for 1976, Including the quarter ending January 1977
0278 145 Zinc-halide hydrocracking process for distillate fuels from coal, Annual Technical Progress report, Feb. 1977 - Jan. 1978
0279 36 Zinc-halide hydrocracking process for distillate fuels from coal. Annual technical progress report for February 1978 - January 1979
0279 158 Regeneration of 'spent' ZnCl//2 production catalyst from hydrocracking subbituminous coal
0280 3 Continuous hydroliquefaction of sub-bituminous coal in molten zinc-chloride
0280 49 Gasoline from coal via molten zinc chloride hydrocracking
0280 358 Zinc halide hydrocracking process for distillate fuels from coal - Final Report, Volume I - Summary and continuous bench studies, January 1975 - November 1979
0281 130 Hydrocracking of coal to light distillate with molten zinc chloride
0281 168 Method for removing acid gases from a gaseous stream

0281 170 Hydrocracking with molten zinc chloride catalyst containing 2-12-percent ferrous chloride
1081 40 Method for the regeneration of spent molten zinc chloride

ZIGMOND, RD
0379 71 A computer analysis of coal preparation plant economics and equipment selection

ZILM, KW
0278 23 Carbon-13 NMR Investigation of the chemical composition of coal derived liquids.
0282 163 Changes in aromaticity during coal liquefaction
1079 76 Comparison of the carbon-13 N.M.R. spectra of solid coals and their liquids obtained by catalytic hydrogenation
1081 69 Carbon-13 CP/MAS spectroscopy of coal macerals
1081 180 Carbon-13 CP/MAS study of coal macerals of varying rank

ZIMINA, ES
0281 266 Hydrogenation of coal of the Talbulag deposit in the Mongolian People's Republic

ZIMMER, CR
0178 350 Affects of various parameters on monolithic refractory linings for coal gasifiers

ZIMMERMAN, M D
1181 7 The synfuel solution

ZIMMERMAN, DE
0475 7 Third Symposium on Surface-mining and reclamation, Volume I

ZIMMERMAN, GP
0681 206 Development support by ORNL for TVA AFCB pilot plant

ZIMMERMAN, RD
0673 10 Fluidized-bed combustion used in HTGR fuel reprocessing

ZIMMERMAN, RE
0378 6 Japanese swirl-cyclone
0677 56 Technology and use of lignite
1079 0 Evaluating and testing the coking properties of coal

ZIMMERMAN, RG
1179 8 Engineering a transition to coal

ZINCHUK, IF
1079 221 A mathematical model for predicting the quality of the coal-alkali reagent at the Semenova Montan Wax Factory

ZINGARO, RA
0280 291 Liquid sulfur dioxide - as an agent for upgrading coal liquid
0281 67 Liquid sulphur dioxide - a reagent for the separation of coal liquids
0281 246 Liquid sulfur dioxide as an agent for upgrading coal liquid
0580 64 Arsenic and selenium in Texas lignite

ZINGERMAN, YV
0379 76 A study of the influence of the high-temperature treatment of gas coal on the properties of the solid residue obtained

ZINK, G
0477 77 Application of cement-grout to coal mine roof-bolting
0479 143 Augmentation of small-hole rock drilling with water jets

ZINK, RA
0276 82 Impacts of Synthetic liquid fuel development - Automotive Market, Volume II, Assessment of Critical Factors
0276 83 Impacts of synthetic liquid fuel development - Automotive Market, Volume I, Summary

ZINKE, PJ
0677 15 Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report

ZINNEMAN, T
0680 232 Coal-fired open-cycle liquid-metal magnetohydrodynamic topping cycle for retrofit of steam power plants

ZINTEL, H
0381 112 Coal fines recovery and utilization

ZIOBROWSKI, A
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

ZIOLKOWSKI, A
0481 120 Seismic surveying in British coalfields
0979 4 Simple approach to high resolution seismic profiling for coal

ZLOBIN, VP
0279 174 A study of the possibility of the complex processing of the brown bituminous coals of the South Urals Basin
0281 231 Influence of the oxidation of brown coal before extraction on the quality of the brown-coal wax and coal-alkali reagents

ZNAIMER, S
1080 151 Characteristics of catalyst-impregnated coal samples

ZOBOROWSKI, ME
0882 50 High pressure coal slurry pumping with hydraulic exchange pumps

ZODROW, EL
0478 144 Roof weakness: Fossilization and (cyclic) regenerative hydrated sulfates
0682 60 Tentative identification of chemical elements likely to escape in the atmosphere at the Lingan coal-fired power plant, Lingan, Nova Scotia
0780 3 Hydrated sulfates from Sydney coalfield, Cape Breton Island, Nova-Scotia, Canada: The copiapite group
1078 14 Hydrated sulfates in the Sydney coalfield, Cape-Breton, Nova-Scotia

ZOLLER, WH
0677 17 Single-particle analysis of the ash from the Dickerson coal-fired power plant
0678 142 Coal combustion: source of toxic elements in urban air?
1080 42 Concentrations of elements in the National Bureau of Standards' bituminous and subbituminous coal standard reference materials

ZOLOTUKHIN, YA
1081 138 The interconnection of the plastic-viscous properties and the petrographic features of Kuznetsk coals in charges

ZONAILO, GW
0881 48 Coal Technology '81, Vol. 2

ZORIN, AT
1081 178 Influence of the final temperature of the pyrolysis of coal on the reactivity and nature of the interaction of the coke residues with oxygen

ZRAKET, CA
1172 2 Energy, resources and the environment

ZUBENKO, VI
0379 64 Preparing a coal charge for coking at the Dnepropetrovsk coke works

ZUBER, IL
0173 10 Operations: Carbon-dioxide-acceptor process gasification pilot-plant. Final report, Volume 6, Book 1 of 2, January 1972 - June 1973
0173 49 Operations: CO//2 acceptor process gasification pilot plant. Final report, Volume 6, Book 2 of 2, Appendices, January 1972 - June 1973
0174 21 Operations: Carbon-dioxide-acceptor process gasification pilot-plant, Final Report, Volume 7, July 1973 - July 1974

ZUBKO, SV
1081 187 An investigation of the chemical composition of the resin fraction of brown-coal wax

ZUBKOVA, YN
0381 69 The use of alkyl sulfates in the dewatering of a coal flotation concentrate
1079 152 Adsorption of electrolytes from aqueous solutions by coals
1080 98 Influence of inorganic electrolytes on the electrokinetic potential of hard coals
1080 191 Correlation between electrode potentials and floatabilities of Donbas coals
1081 189 Adsorption of organic substances by coals from the gas phase under dynamic conditions

ZUCKERMAN, JJ
1081 158 Qualitative and quantitative analysis of iron-bearing minerals in fossil fuels and petroleum source rock by iron-57 Moessbauer spectroscopy

ZUFNICEK, J
0181 182 An investigation of the composition of the neutral fraction of the condensate from the detoxification of generator gas

ZUHL, FA
0477 18 Solidification of fine coal refuse

ZUKOR, SH
0178 405 Proceedings of the 4th underground coal conversion symposium, Steamboat Springs, Colorado, July 17/19, 1978
0179 84 Department of energy's 1979 underground coal conversion program

ZULKOSKI, M
0677 94 Chemical transformations of the minerals in eastern bituminous coals under simulated pulverized coal-firing conditions

ZUMREOGLU, B
1079 67 Effect of mercury on depolymerization of coal

ZUNKER, WF
0680 28 Combustion efficiency: simultaneous firing of coal with oil or gas in medium to heavy boilers

ZVEGIL'SKII, DS
1078 142 Reproducibility of the results in investigations of carbons by pyrolitic mass-spectrometry

ZVEREV, DP
0281 216 Production of synthetic liquid fuel from Kansk-Achinsk coal
0378 74 Thermal preparation of coals using vortex chambers
0379 59 Thermobriquetting of the Almalyk and Kyzil-kiya coals of the Irghiz SSR

ZVYAGHINTSEV, KN
0181 12 Trends of development of underground coal gasification in the USSR

0182 24 Underground coal gasification in the USSR

ZVYAGINTSEV, KN
0178 359 Trends in the production of substitute natural gas by underground processing of coals
0180 262 State and prospects of the development of the underground gasification of coals in the USSR

ZWEIBAUM, FM
1079 261 The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

ZWEIDINGER, RA
0179 323 Pollutants from synthetic fuels production: Sampling and analysis methods for coal gasification

ZWEIDINGER, RM
0579 113 Pollutants from synthetic fuels production: Coal gasification screening test results

ZWEIGLE, ML
0174 36 Technological feasibility of alternative energy sources

ZWIGHT, DM
0477 92 Fifth Symposium on Surface-mining and reclamation

ZWILLENBERG, ML
0677 101 Water/oil emulsion combustion in boilers and gas-turbines

ZYBALOVA, GP
0280 132 Method for heat processing of pulverized brown-coal
0280 139 Heat processing of pulverized carboniferous material

ZYGLER, S
1078 49 EPR study of the absorption of iodine by coal

ZYKOV, DD
1080 189 Prerequisites for the selection of the optimum structure of a scheme of separating the liquid products of the chemical processing of solid fuels
1081 128 The change in the elastic properties of semicoke-coke across a cross-section of the layer in a continuous coking chamber

ZYKOV, VM
1180 38 Technical and economic basis of the development of new methods for the intensive processing of coals

ZYRYANOV, VM
0379 59 Thermobriquetting of the Almalyk and Kyzil-kiya coals of the Irghiz SSR

ZYRYANOVA, EV
1079 165 Separation of brown-coal bitumens by continuous countercurrent liquid extraction